

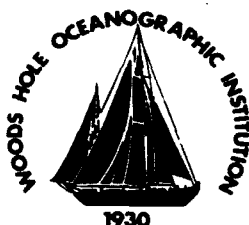
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## CTD Observations Off Northern California During the Shelf Mixed Layer Experiment, SMILE, May 1989

by

Richard Limeburner and Robert C. Beardsley

September 1989

### Technical Report

Funding was provided by the National Science Foundation  
through Grant Number OCE 87-16937

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CTD OBSERVATIONS OFF NORTHERN CALIFORNIA  
DURING THE SHELF MIXED LAYER EXPERIMENT, SMILE,  
MAY 1989

**Abstract**

CTD observations were made off the northern California coast during R/V *Wecoma* cruise W8905 May 5–14, 1989 as part of the Shelf Mixed Layer Experiment (SMILE). The surveys consisted of two sampling plans — a large-scale grid of four cross-shelf transects extending to both sides of Point Arena and Point Reyes, and a small-scale grid of six cross-shelf transects located near the central SMILE mooring site. All of the cross-shelf transects extended beyond the shelf break and the maximum sampling depth at each station was near-bottom or 1500 m. The average along-shelf separation between cross-shelf transects was about 15 km for the small-scale surveys and 50 km for the large-scale grid.

The primary objectives of the hydrographic measurement program were to observe and characterize the temperature, salinity, density, and light transmission fields and their temporal and spatial variability in the surface boundary layer along the continental shelf and slope near the SMILE moored array, and to acquire estimates of the cross- and along-shelf scales over which the mixed-layer depth varies. This report presents a summary in graphic and tabular form of the hydrographic observations made during cruise W8905 on the R/V *Wecoma*.

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## 1. Introduction

Past hydrographic (CTD) and Acoustic Doppler Current Profiler (ADCP) mesoscale surveys of the coastal region near Point Arena, California (Huyer and Kosro, 1987; Huyer, 1984; Kosro, 1987) obtained during the Coastal Ocean Dynamics Experiment (CODE) in 1981 and 1982 have provided a description of the spatial structure of the temperature, salinity, density, and velocity fields and variability during the upwelling season (April to August). In summer, when winds were strong and persistently upwelling favorable, surface temperatures increased monotonically and surface salinities decreased with distance from the coast. Also, isopycnals, isotherms, and isohalines all slope upward toward the coast and there is on average a surface intensified, equatorward, baroclinic alongshore coastal jet found at midshelf. During wind relaxation (weak wind) events in the CODE field program, near-surface water warms appreciably, particularly nearshore where warm water is advected northward along the coast as a narrow inshore countercurrent (Send *et al.*, 1987). Also, coherent mesoscale flow structures identified over the outer shelf and slope with shipboard acoustic Doppler current profiler surveys are closely related to the variability observed in satellite infrared imagery.

The Shelf Mixed Layer Experiment (SMILE) was undertaken to investigate the surface boundary layer over the continental shelf off northern California during winter. As part of the SMILE field program, a moored array was deployed on the shelf between Point Arena and Point Reyes from mid November, 1988 through May, 1989 to make long-term (6 months) observations of the atmospheric forcing and the spatial and temporal structure of the oceanic response in the surface boundary layer. Extensive shipboard CTD and ADCP measurements were also made over the shelf and slope in this region as part of SMILE during three periods: the first just following the mooring deployment operations in November, 1988; the second midway through the moored array deployment in February, 1989; and the third after the spring transition and just before the mooring recovery operations in May, 1989. The hydrographic surveys were conducted using three sampling plans — a large-scale grid of four cross-shelf transects extending to both sides of Point Arena and Point Reyes, a small-scale grid of five (or six) cross-shelf transects located near the central SMILE mooring site, and an expanded small-scale grid consisting of nine cross-shelf transects. All of the cross-shelf transects extended beyond the shelf break and the maximum sampling depth at each station was near-bottom or 500 m (November), 1000 m (February), or 1500 m (May). The average along-shelf separation between cross-shelf transects was about 15 km for the small-scale surveys and 50 km for the large-scale grid. We present here in graphic and tabular form a preliminary analysis

of the hydrographic survey observations made off northern California during the May, 1989 SMILE field program. The large-scale survey was completed during May 5–8, 1989, the small-scale survey was completed during May 8–9 and again during May 11–13, Section C was completed during May 10 and again during May 14, and Section PL was completed during May 11. Time series of CTD profiles repeated every 15 minutes were made at mooring C1 on the central section on May 10–11, 1989 (stations 102–121), and at mooring C3 on May 13–14 (stations 171–255). Data from these time series stations will be presented in a separate report.

## 2. Instrumentation and Calibration

A Neil Brown Instrument Systems (NBIS) model MKIII CTD fish was used as the primary profiling instrument during R/V *Wecoma* cruise W8905. The instrument provided continuous sampling of temperature, conductivity, pressure, and light transmission. Salinity and density were subsequently derived from the measured variables. The instrument package consisted of the MKIII CTD underwater unit mounted one meter below a General Oceanics rosette sampler with 12 five-liter Niskin bottles. The fast response thermistor on the CTD fish was disabled and the instrument sampled at a rate of 32 hz. Lowering speeds were approximately 36 m/min to match the response times of the temperature and conductivity sensors (Giles and McDougall, 1986).

The CTD underwater unit is part of the R/V *Wecoma*'s scientific equipment and was calibrated at the manufacturer's calibration facility just prior to the cruise. Water samples were normally collected at each station on the up cast at a depth where the vertical stratification was minimal. The calibration samples were then processed at Woods Hole on a Guildline AutoSal salinometer to determine salinity. The individual salinities were converted to *in situ* conductivity and compared to the conductivity output of the instrument. A least-squares fit of the difference between the bottle and instrument conductivity gives

$$C(BOTTLE) - C(CTD) = -0.0000106312 * X - 0.0103436$$

where  $X$  is the station number which varied from 1 to 263, and the sum of the squares of the residuals is 0.009 mmho<sup>2</sup>. This means that the CTD conductivity sensor drift and offset were small during the cruise and that the rms difference between the corrected

CTD and bottle conductivity values was  $\pm 0.008$  mmho. The CTD conductivity for the entire cruise has been edited using the linear regression correction given above.

### 3. Data Processing

The CTD data were recorded at sea with a PC-based data acquisition system written by Howard Saklad of the University of Alaska, Institute of Marine Science. The program acquires the raw CTD data at 32 hz, displays the data in real time, postcast data averages, and prints lists of data at each station. Normally, only the down profile is processed at sea. During post cruise data processing, the conductivity calibration was first applied to the raw data. Then an exponential recursive filter (Middleton and Foster, 1980) described by Cox was applied to pressure and conductivity to match the amplitude and phase of the platinum temperature sensor. The Cox filter has the form

$$c'(t) = w_0 c'(t - dt) + (1 - w_0) c(t),$$

where  $c'(t)$  is the filtered conductivity at time  $t$ ,  $c'(t - dt)$  is the previous filtered conductivity, and  $c(t)$  is the original unfiltered conductivity at time  $t$ . The filter weight is given by

$$w_0 = e^{-dt/tlag}$$

where  $dt = .032$  sec is the sampling period, and  $tlag = .235$  sec is the time lag of the platinum temperature sensor. A uniform pressure series of 1 db interval was then created from the filtered data, after spurious data observations (spikes) had been replaced with interpolated data. Salinity was calculated using Lewis (1980) and a value of 42.914 was used to convert to conductivity ratio (Culkin and Smith, 1980).

### 4. Data Presentation

The hydrographic survey data are shown in the form of vertical sections, T/S correlations, horizontal sections, vertical profiles, and tabular lists at graduated depths. Plots of the mixed layer depth for each survey are defined by a vertical temperature change from the surface value of less than  $0.1^\circ\text{C}$ .



## 5. Acknowledgments

Cruise W8905 on the R/V *Wecoma* was supported by the NSF Grant OCE87-16937. Dr. Robert Beardsley was the Chief Scientist on the hydrographic cruise. The work was a cooperative effort by R. Beardsley, A. Voorhis, R. Limeburner, S. Lentz, R. Stanley, W. Geyer, and M. Willis. Their assistance is greatly appreciated. Finally, the helpfulness of the officers and crew of the R/V *Wecoma* contributed significantly to the success of the cruise.

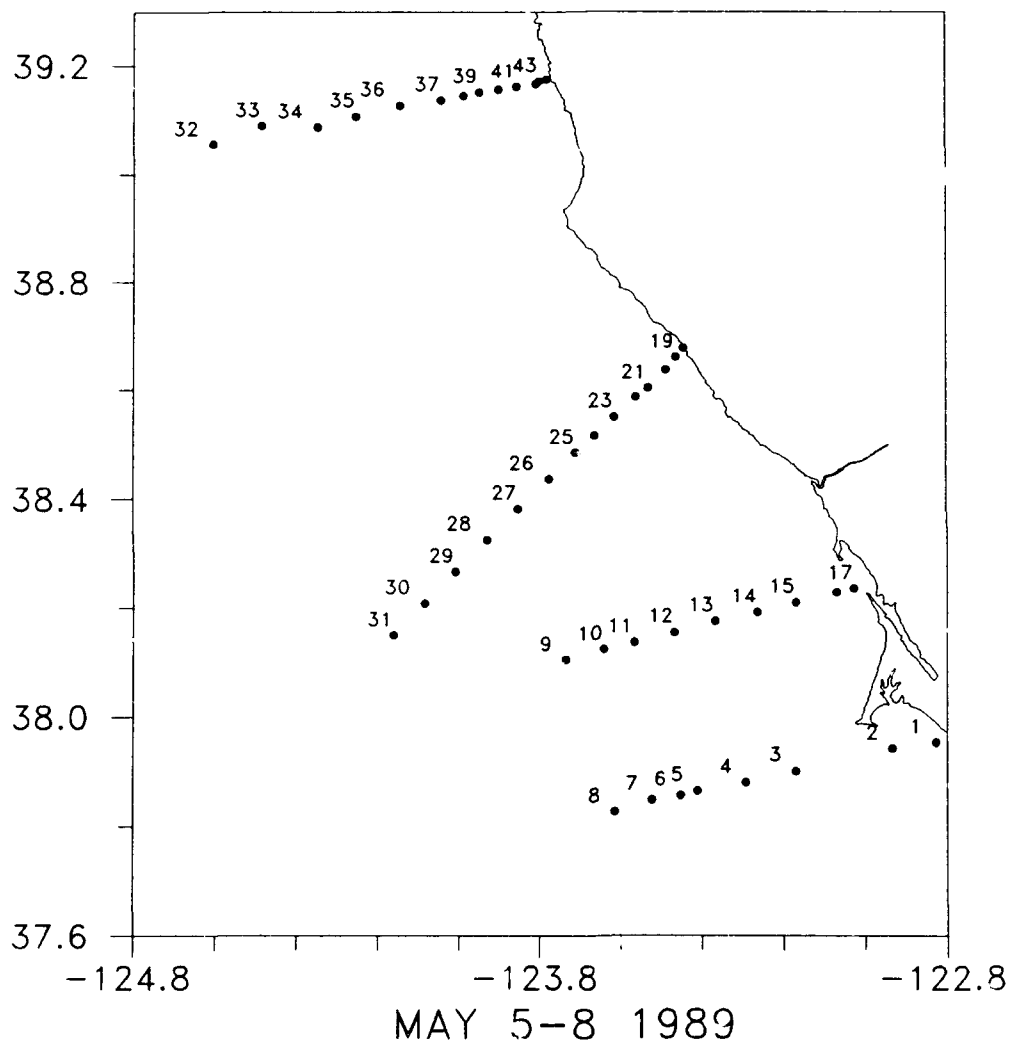
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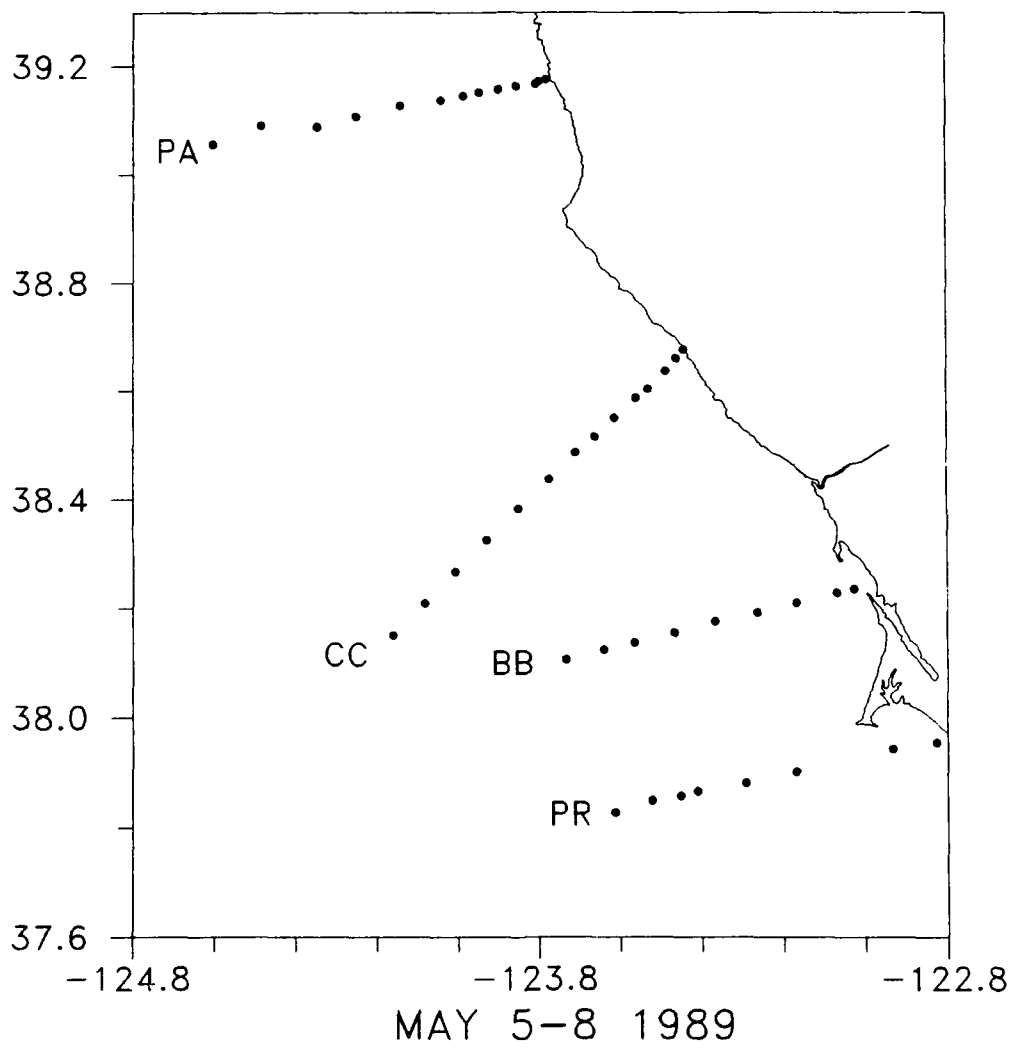
- Culkin, F. and N. D. Smith (1980) Determination of the concentration of potassium chloride having the same electrical conductivity, at 15°C and infinite frequency, as standard seawater of salinity 35.000 ppm (chlorinity 19.37394 ppm). *IEEE Journal of Ocean Engineering*, **OE-5**, 22-23.
- Giles, A. B., and T. J. McDougall (1986) Two methods for the reduction of salinity spiking of CTDs. *Deep-Sea Research*, **33(9)**, 1253-1274.
- Huyer, A. (1984) Hydrographic observations along the CODE central line off northern California, 1981. *Journal of Physical Oceanography*, **14**, 1647-1658.
- Huyer, A., and P. M. Kosro (1987) Mesoscale surveys over the shelf and slope in the upwelling region near Point Arena, California. *Journal of Geophysical Research*, **92**, 1655-1682.
- Kosro, P. M. (1987) Structure of the coastal current field off northern California during the Coastal Ocean Dynamics Experiment. *Journal of Geophysical Research*, **92**, 1637-1654.
- Lewis, L. L. (1980) The Practical Salinity Scale 1978 and its antecedents. *IEEE Journal of Ocean Engineering*, **OE-5**, 3-8.
- Middleton, J. H., and T. D. Foster (1980) Fine structure measurements in a temperature compensated halocline. *Journal of Geophysical Research*, **85(C2)**, 1107-1122.
- Send, U., R. C. Beardsley, and C. D. Winant (1987) Relaxation from upwelling in CODE. *Journal of Geophysical Research*, **92**, 1683-1698.

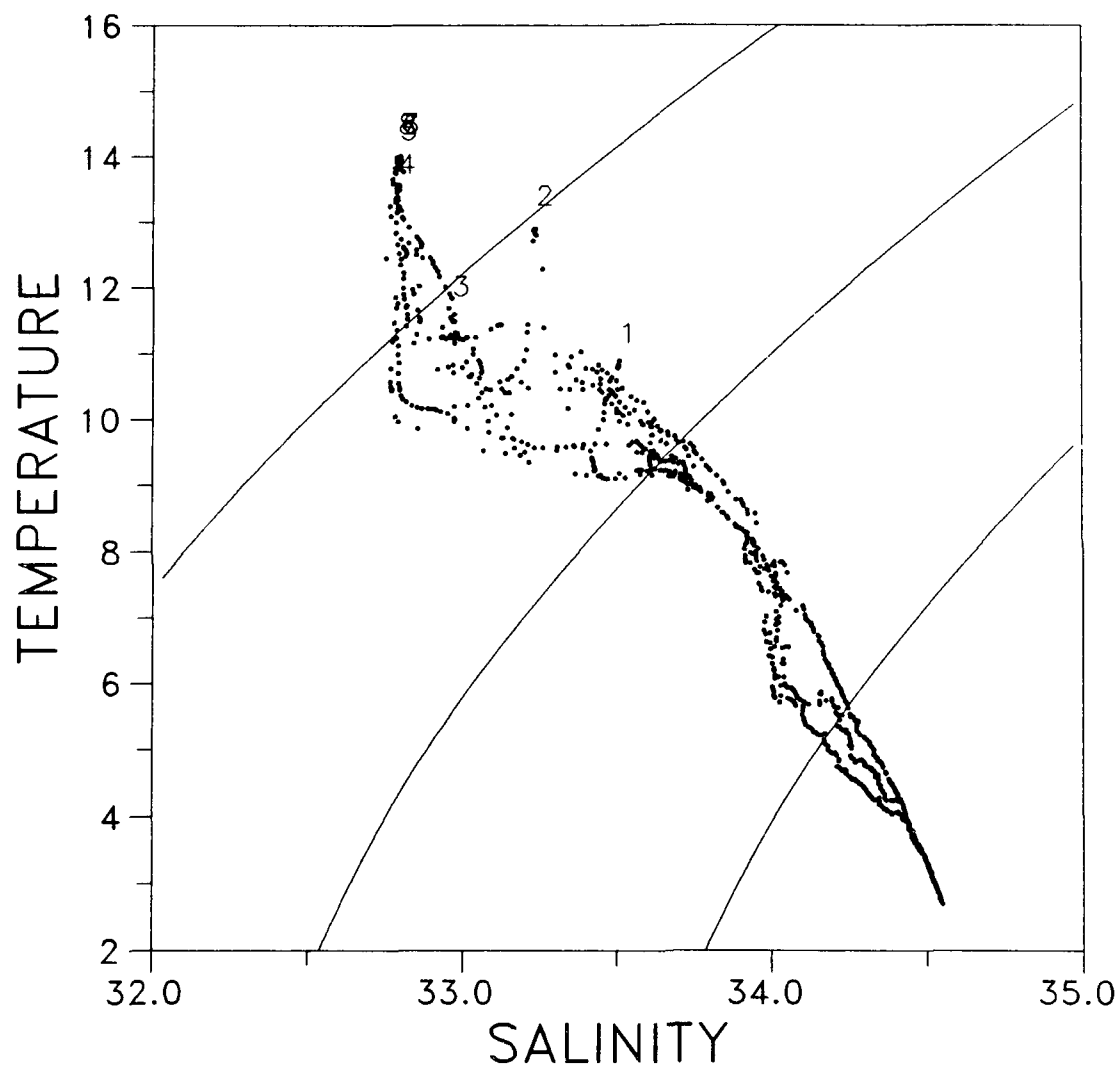


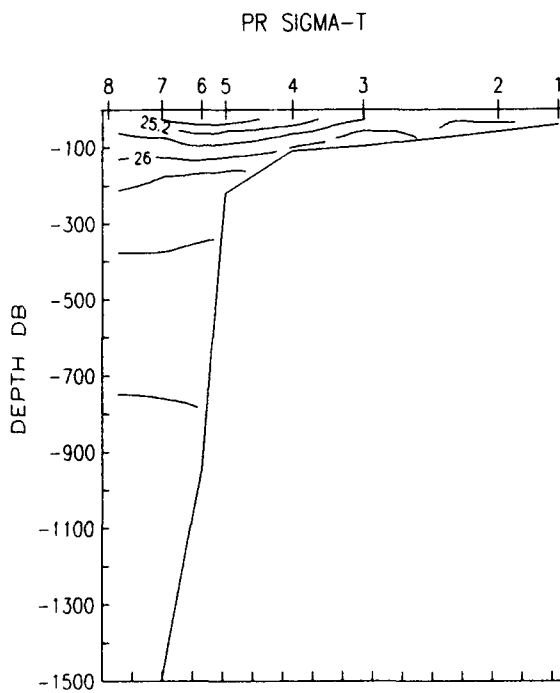
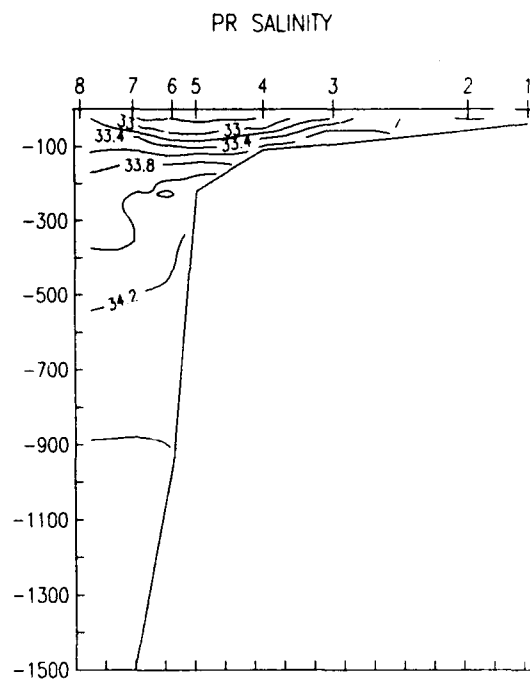
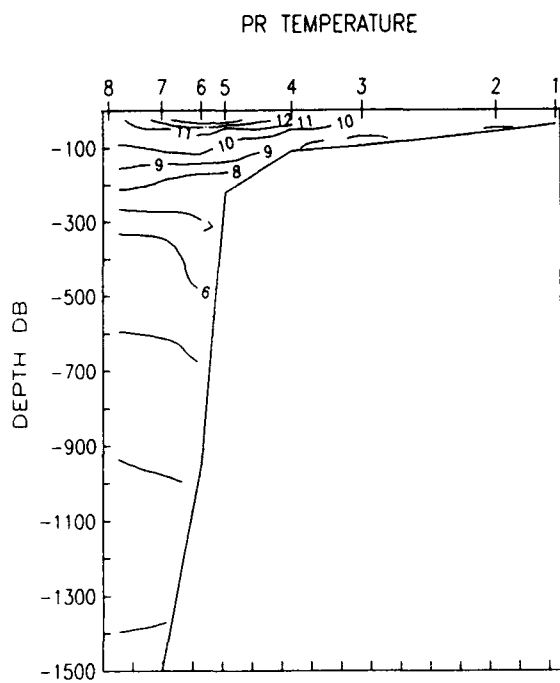
## **7. Graphic Description of CTD Data**

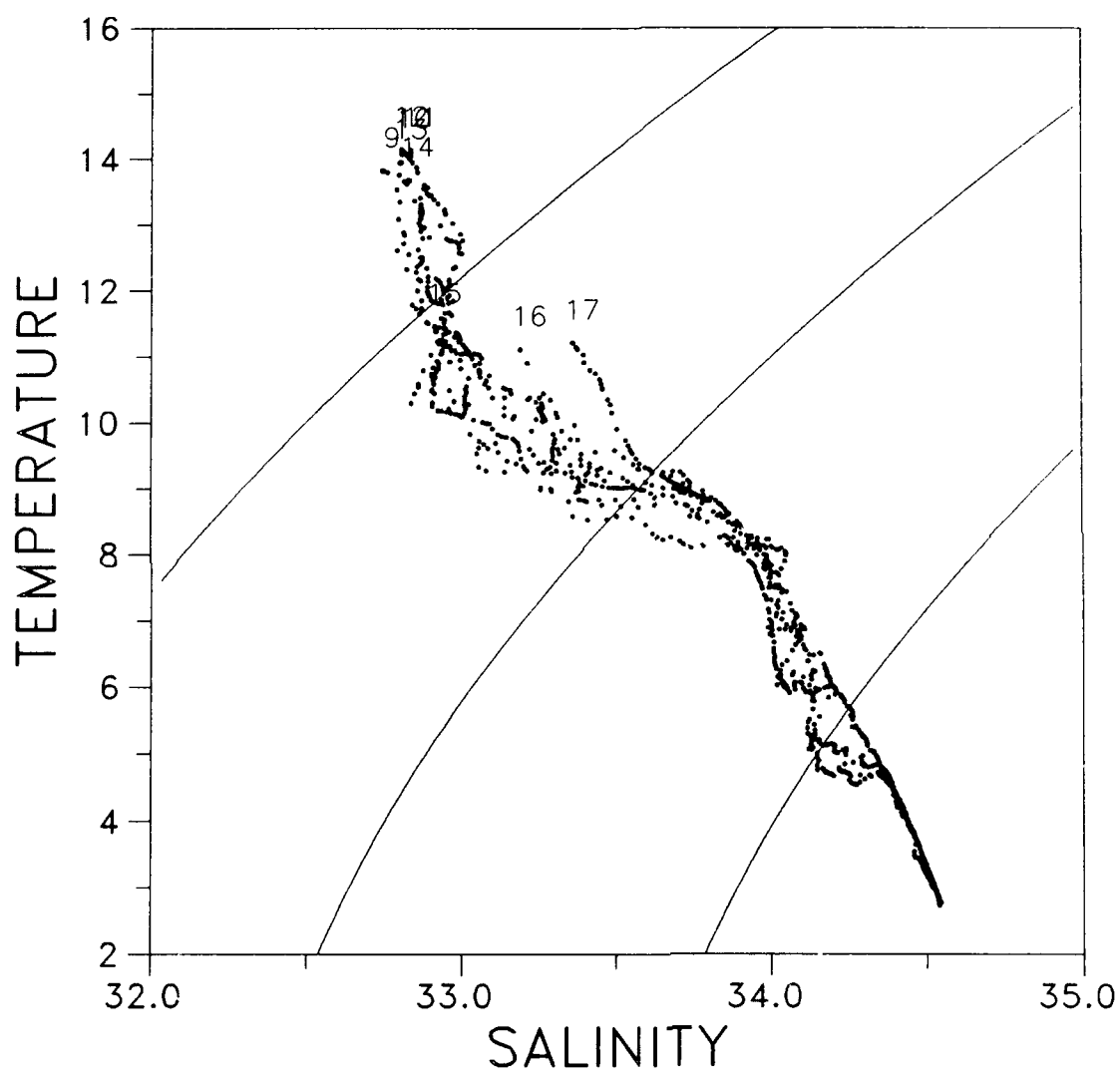
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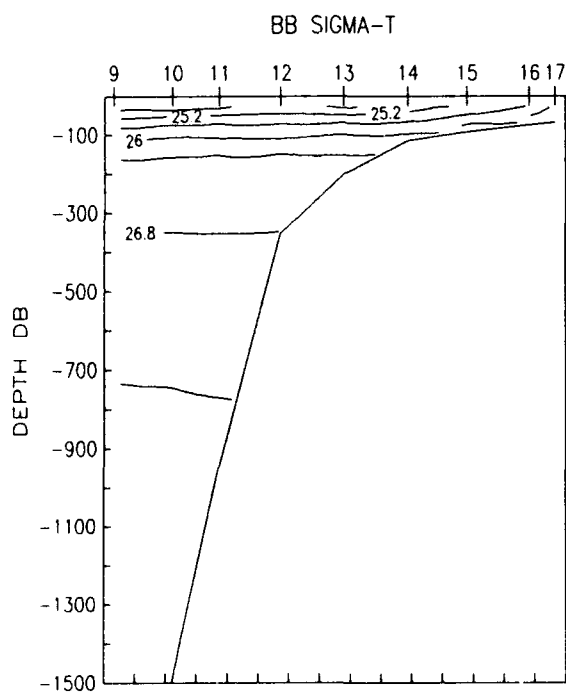
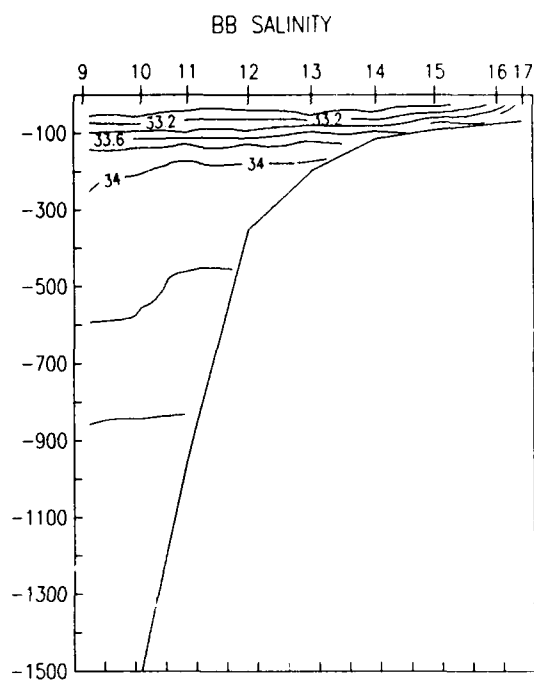
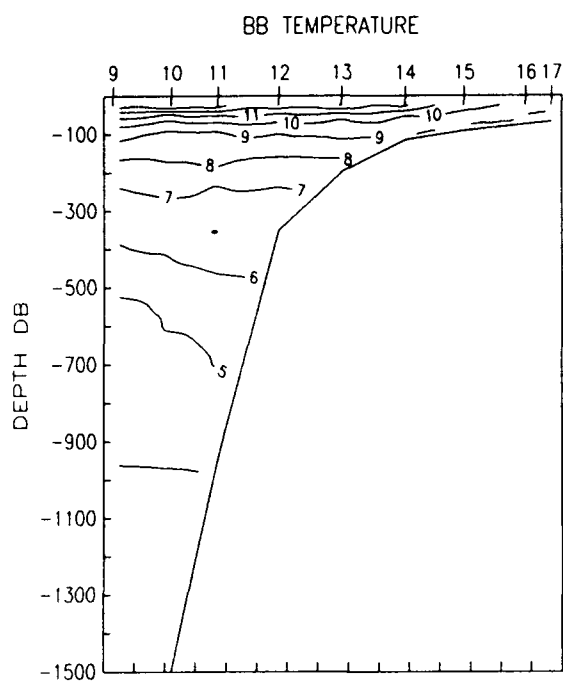


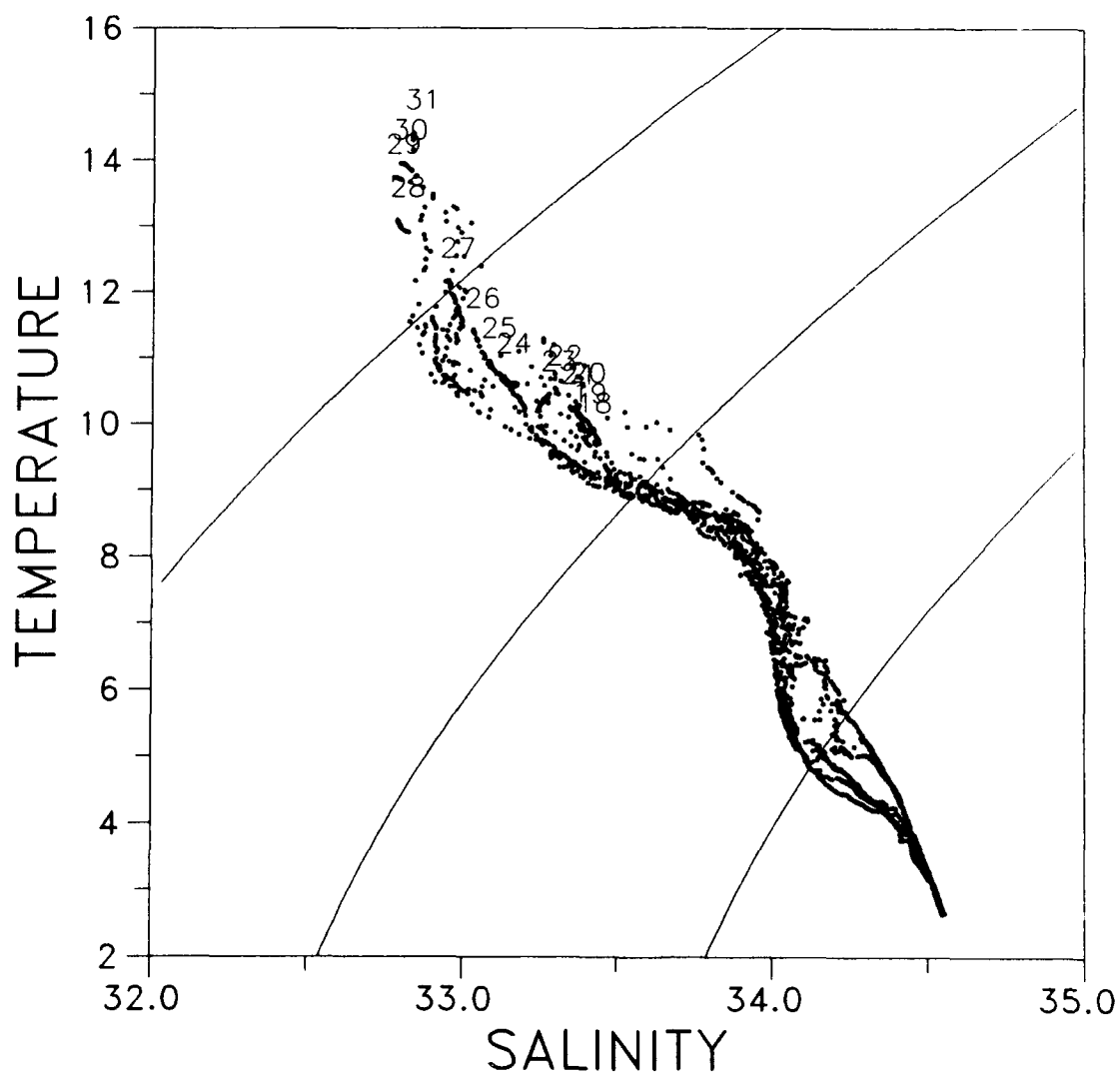


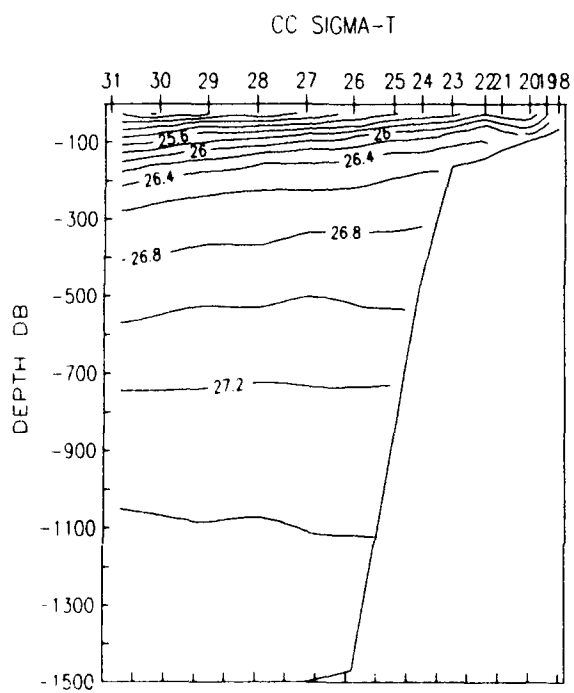
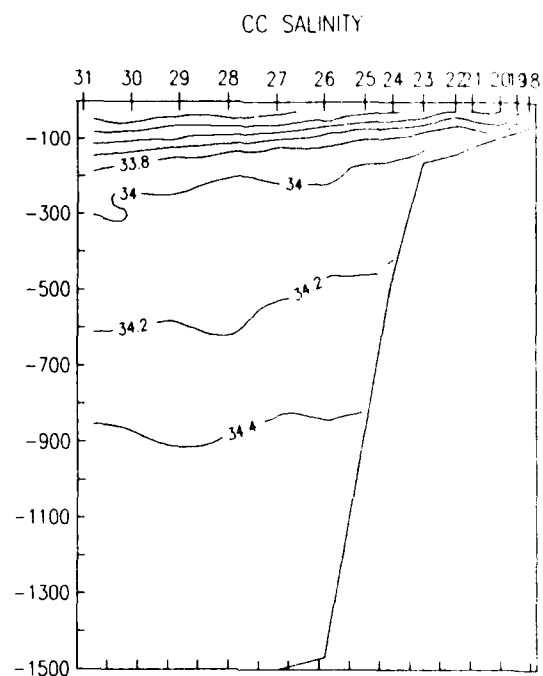
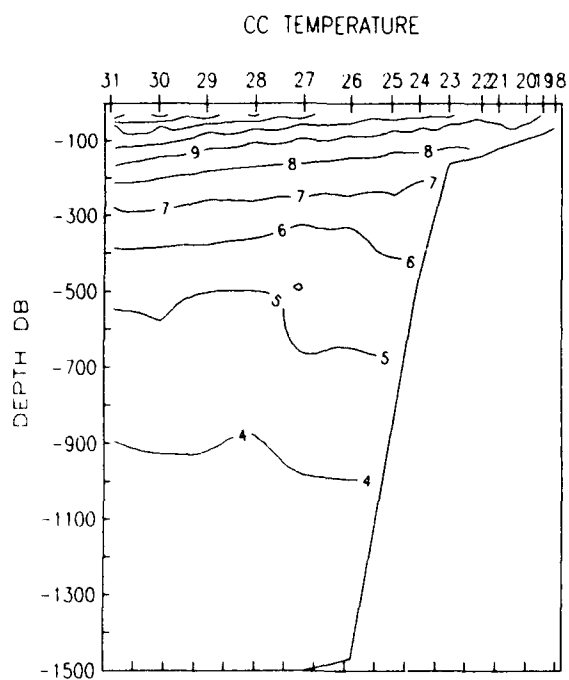


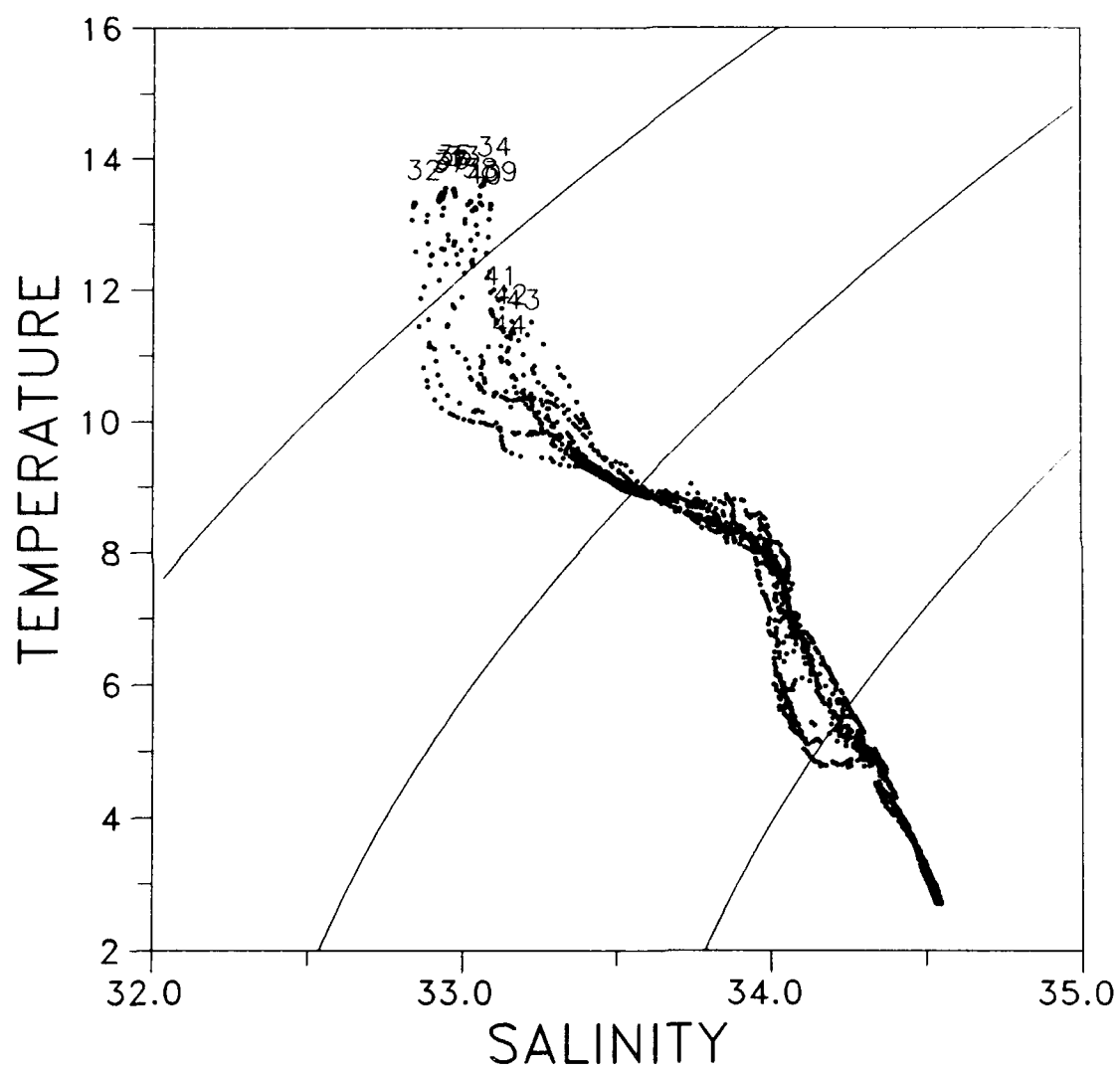


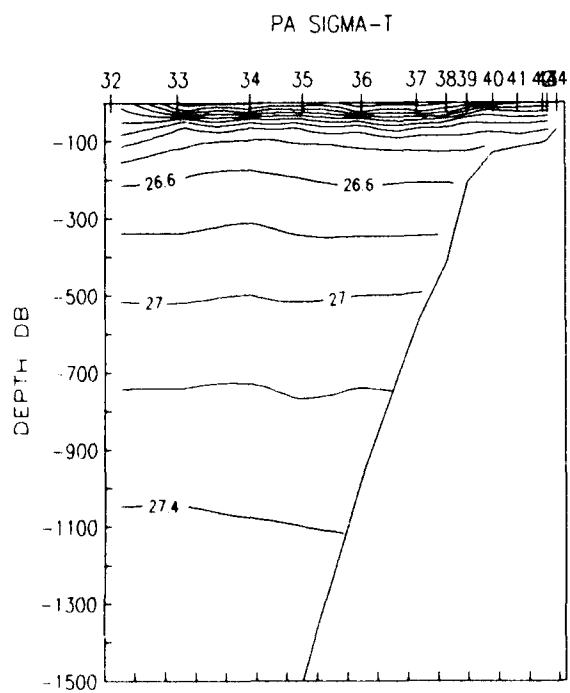
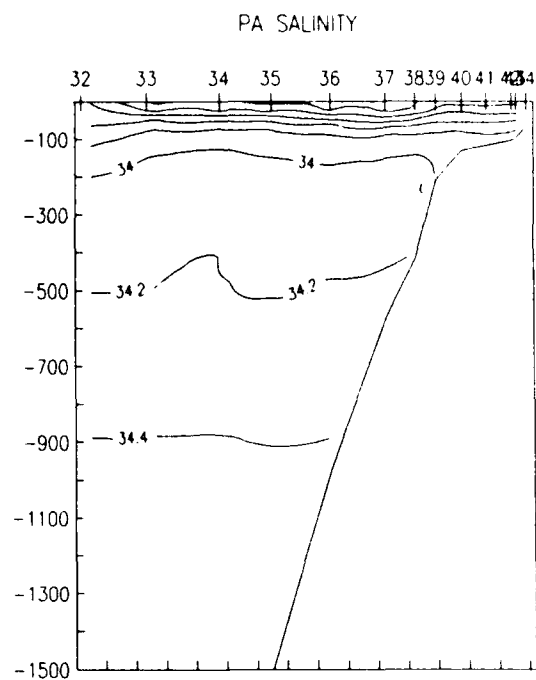
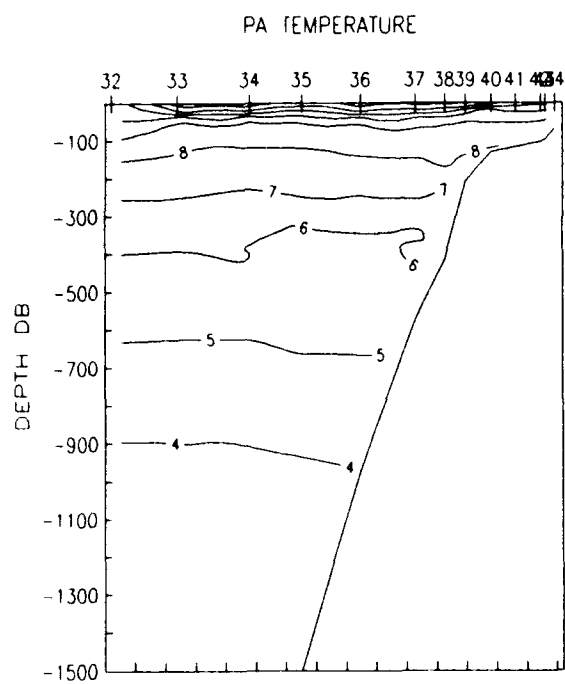




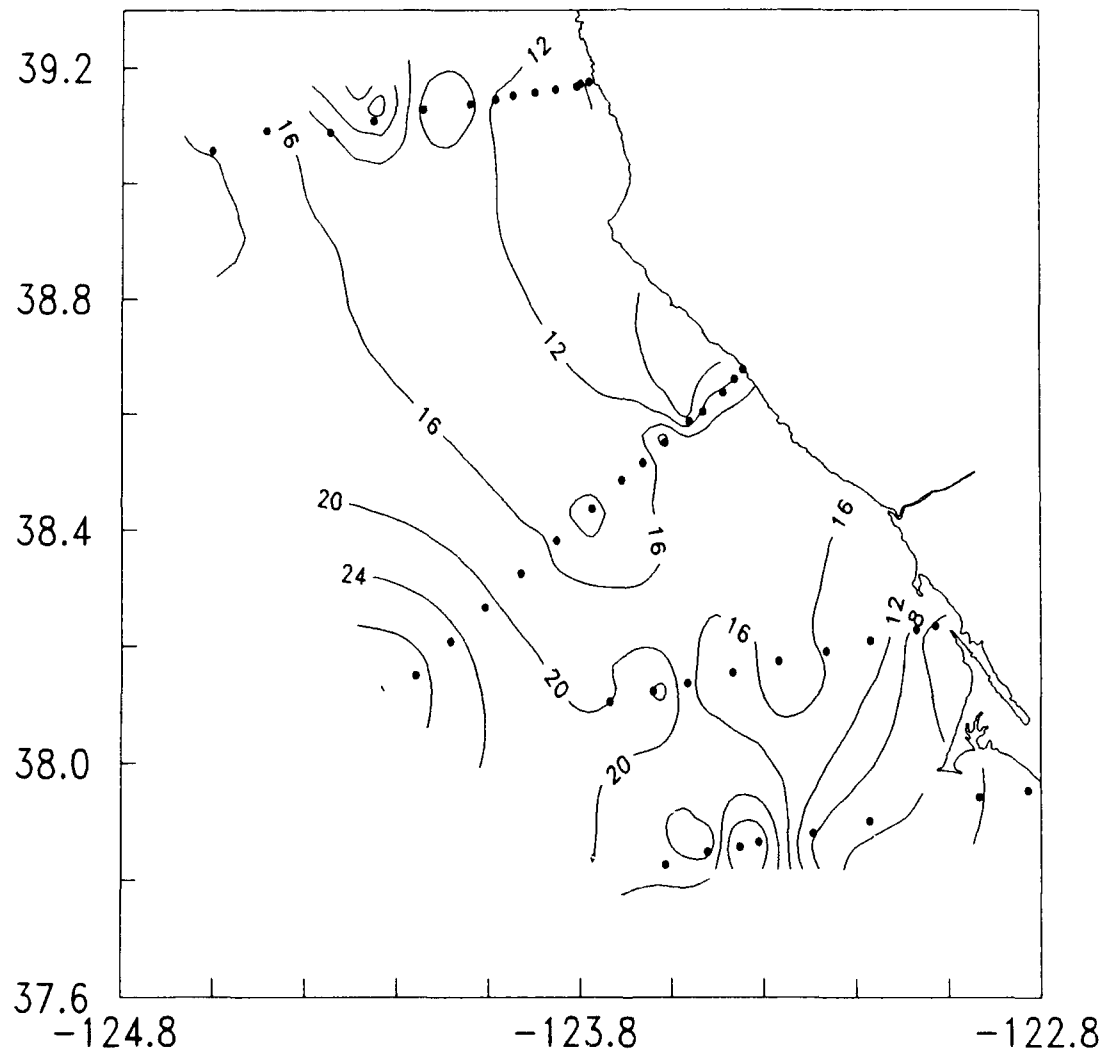




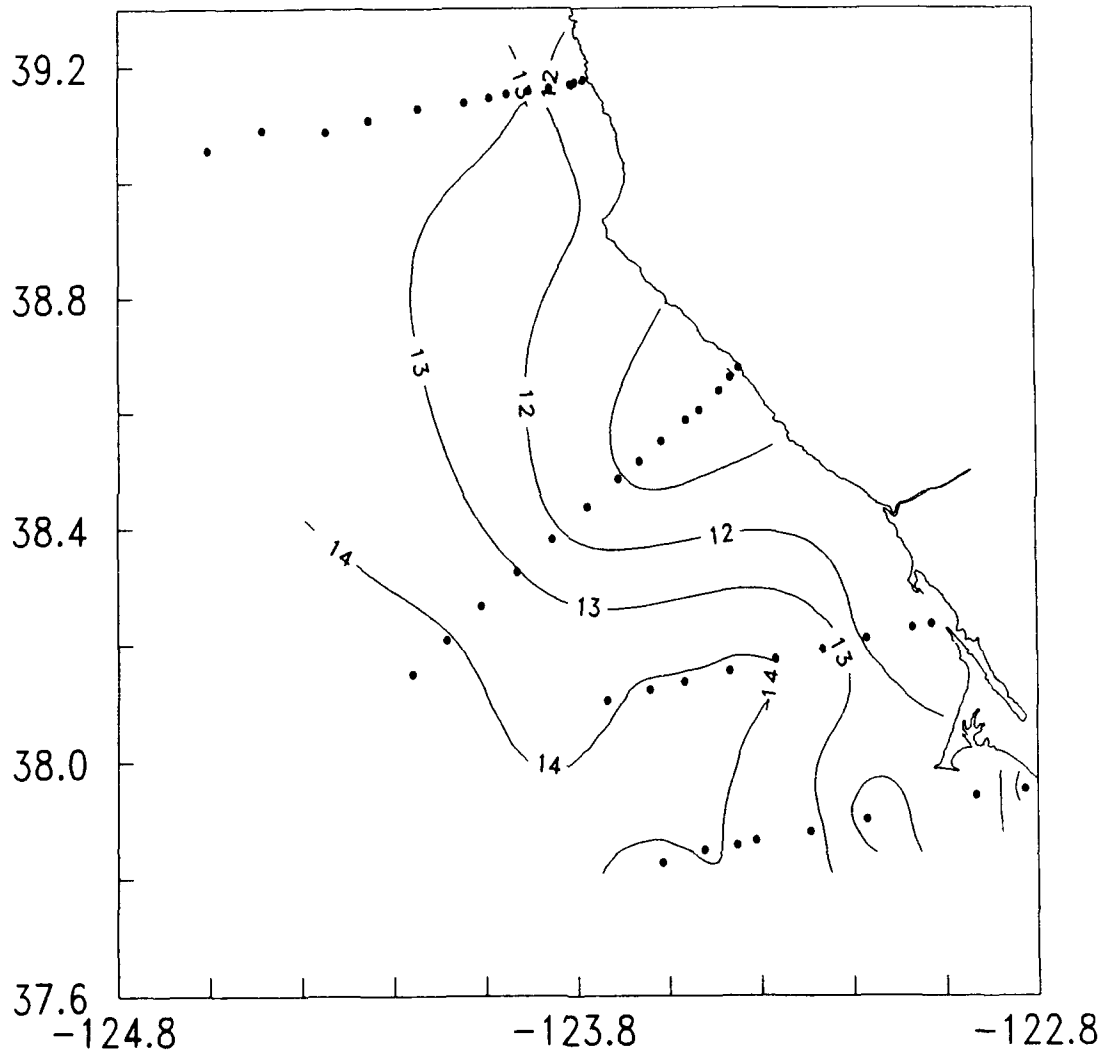




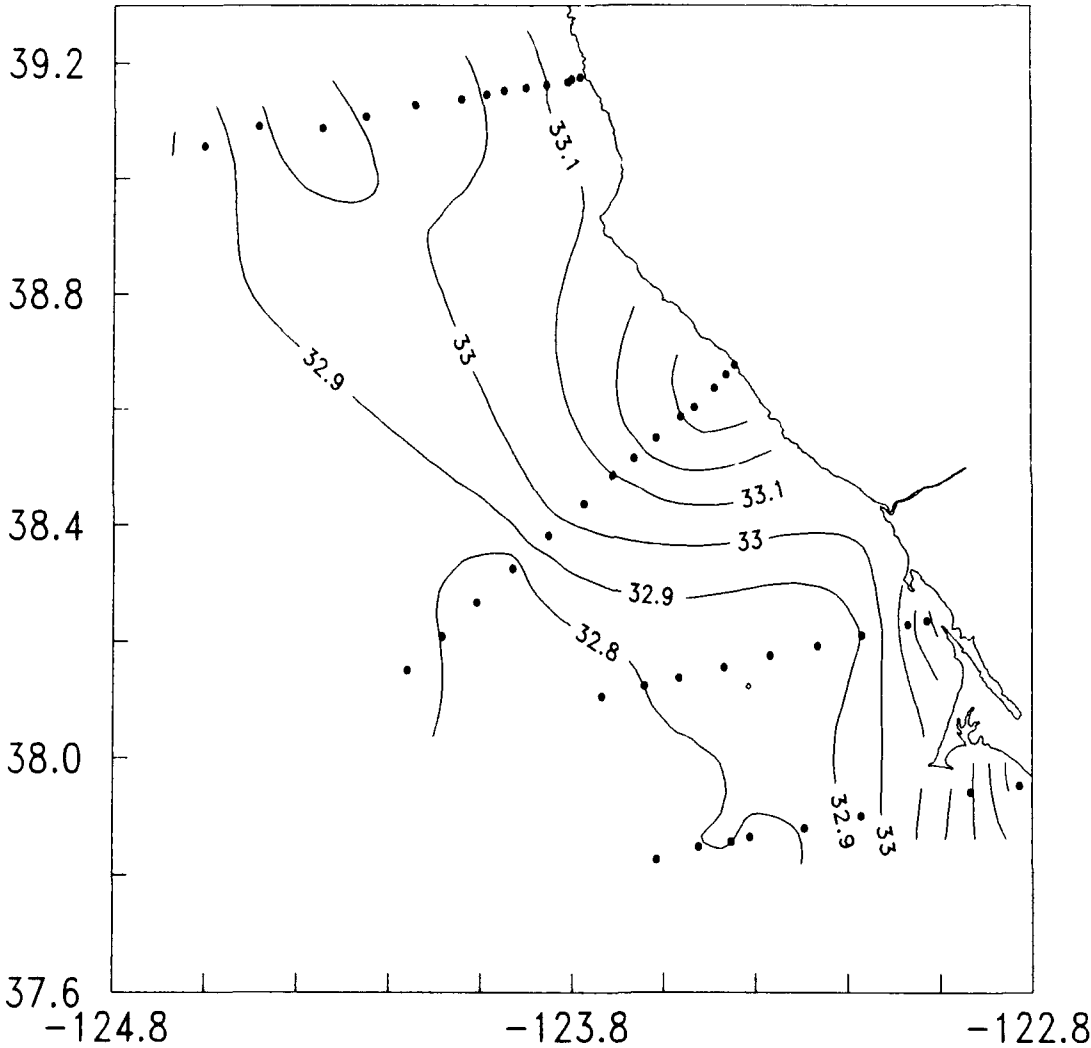
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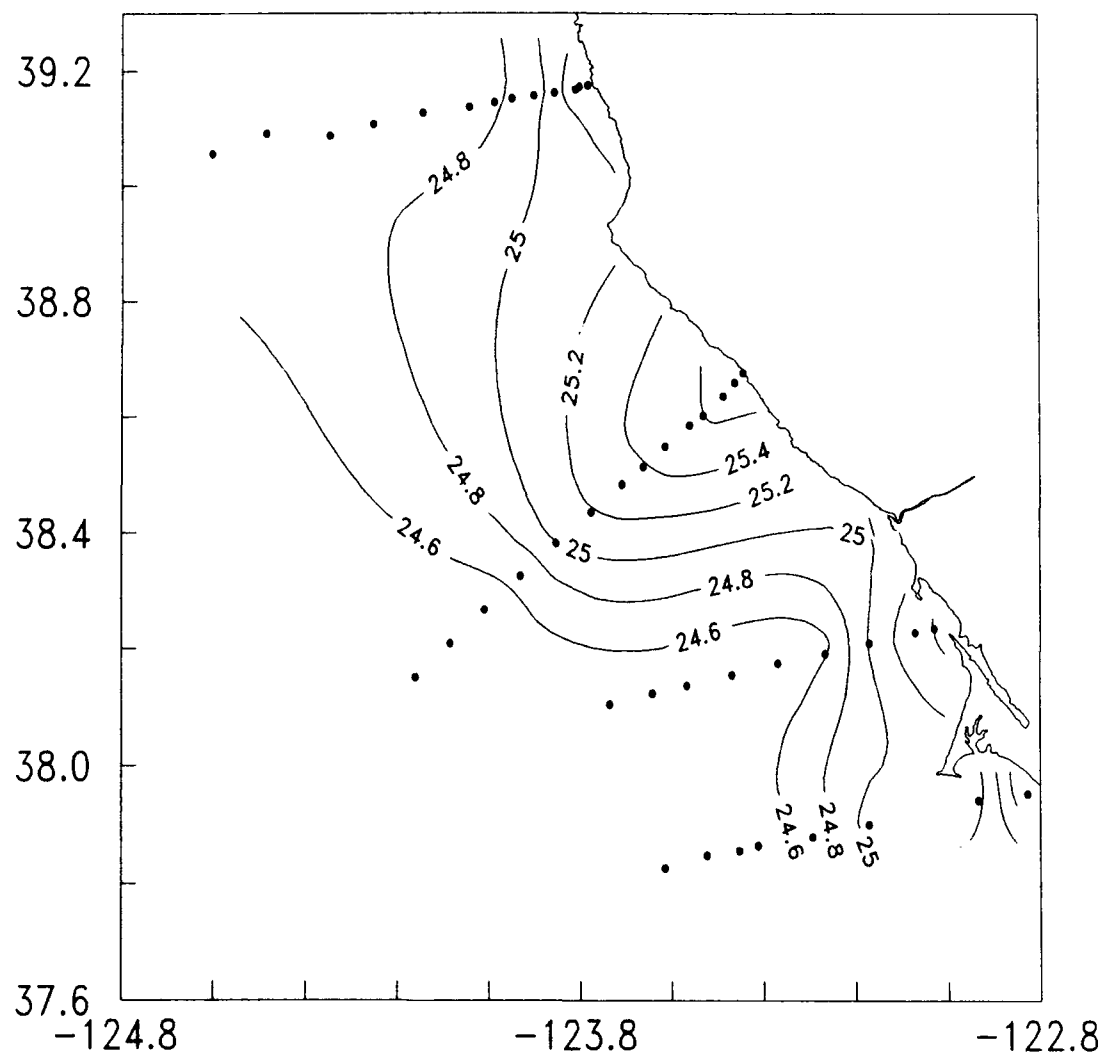


SURFACE SALINITY MAY 5-8 1989





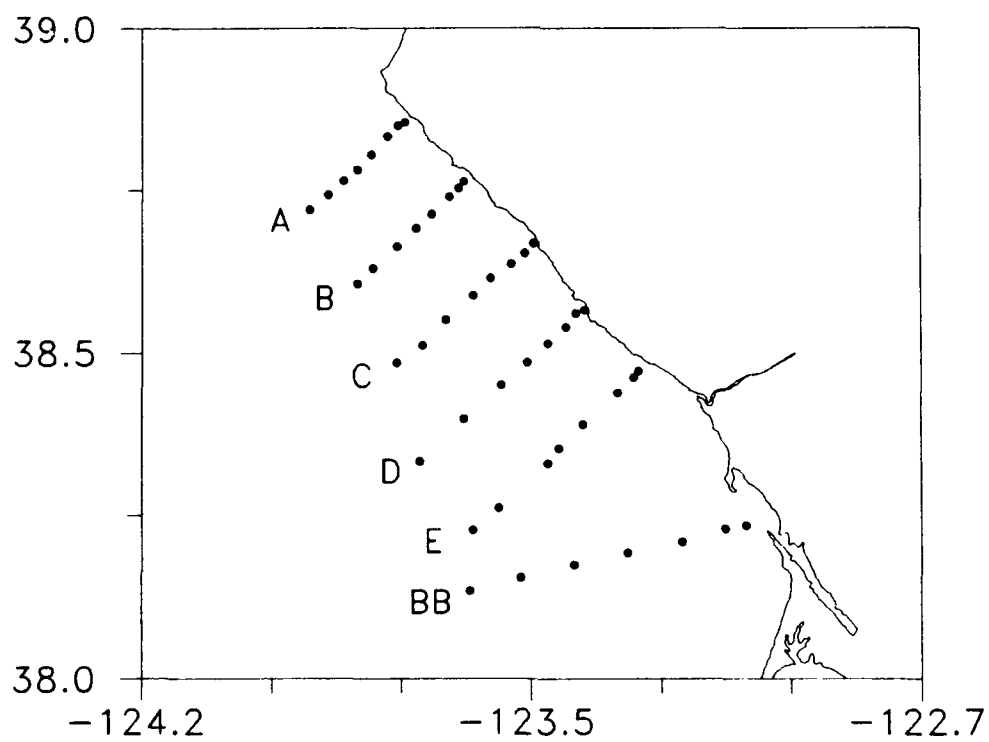
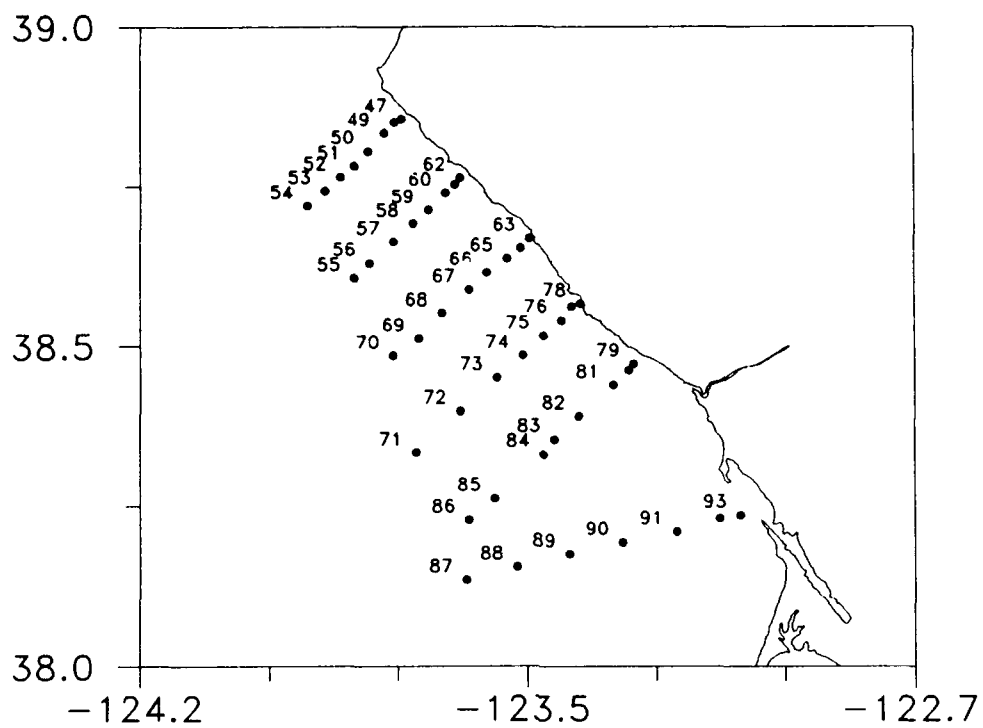
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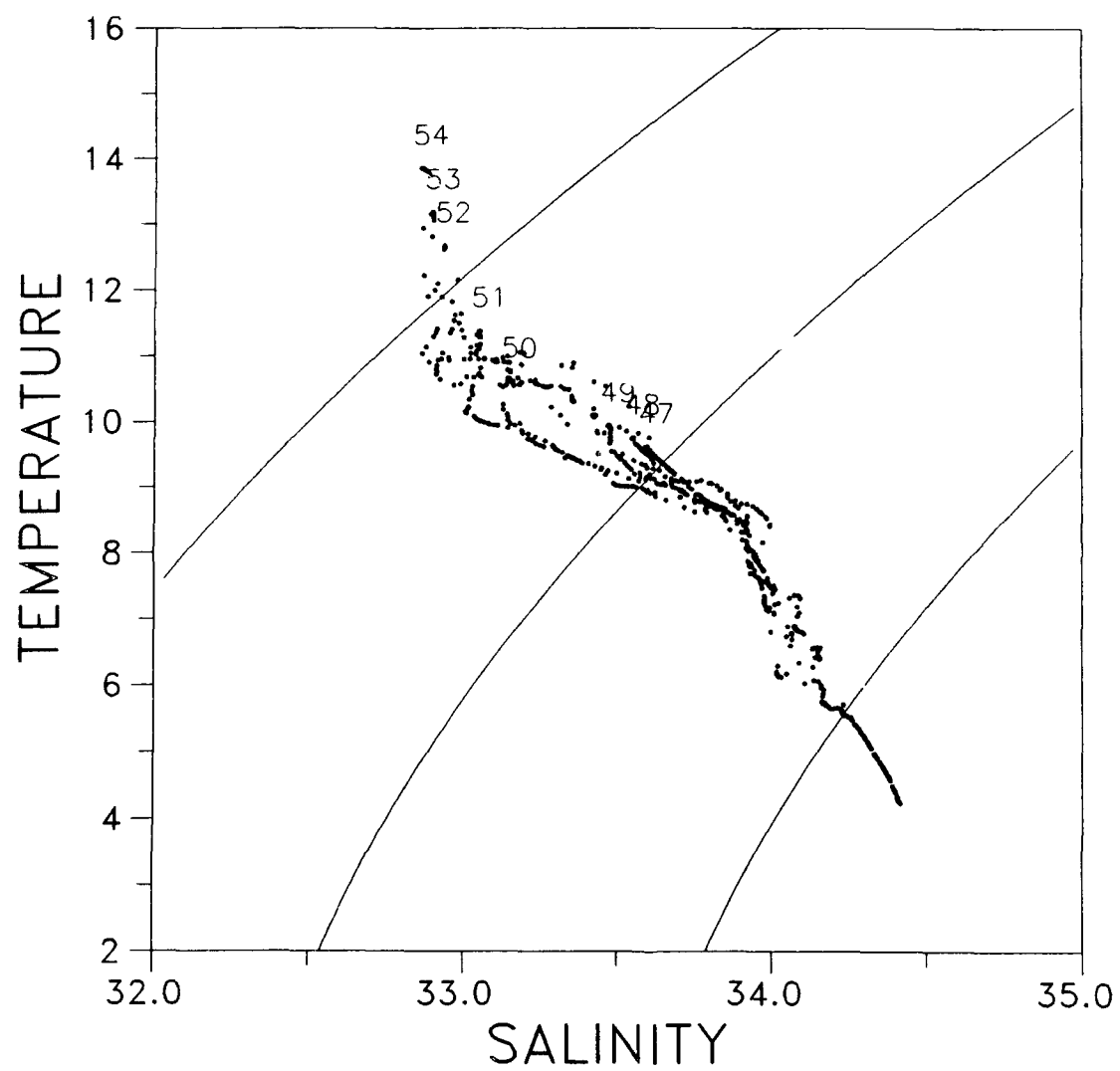


**B. Small-Scale Survey — May 8–9, 1989**  
**Stations 47 to 86**

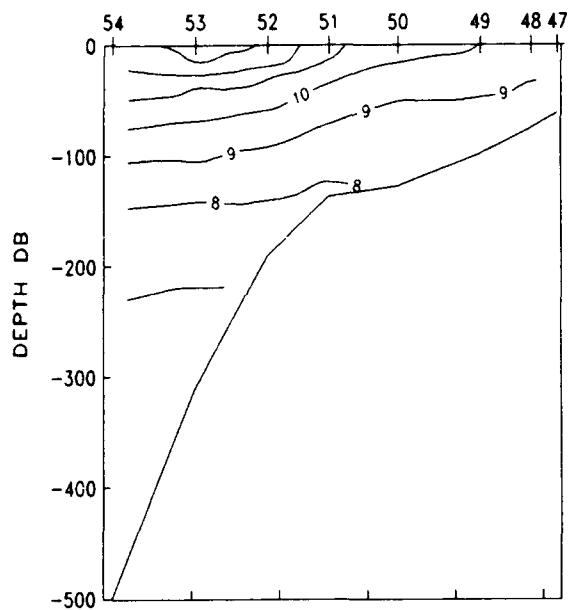




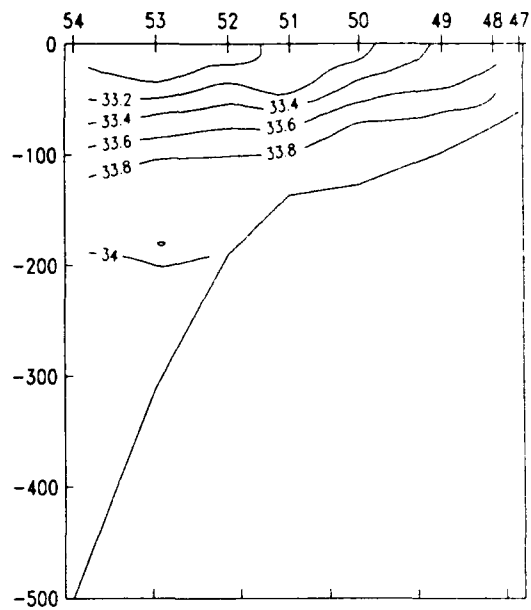
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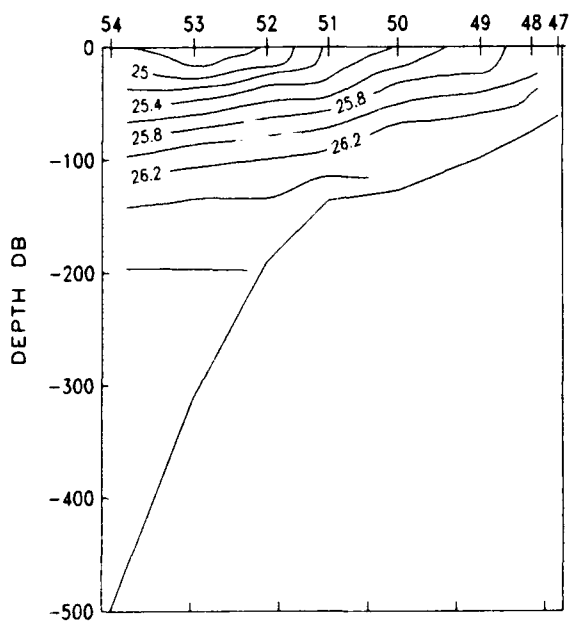
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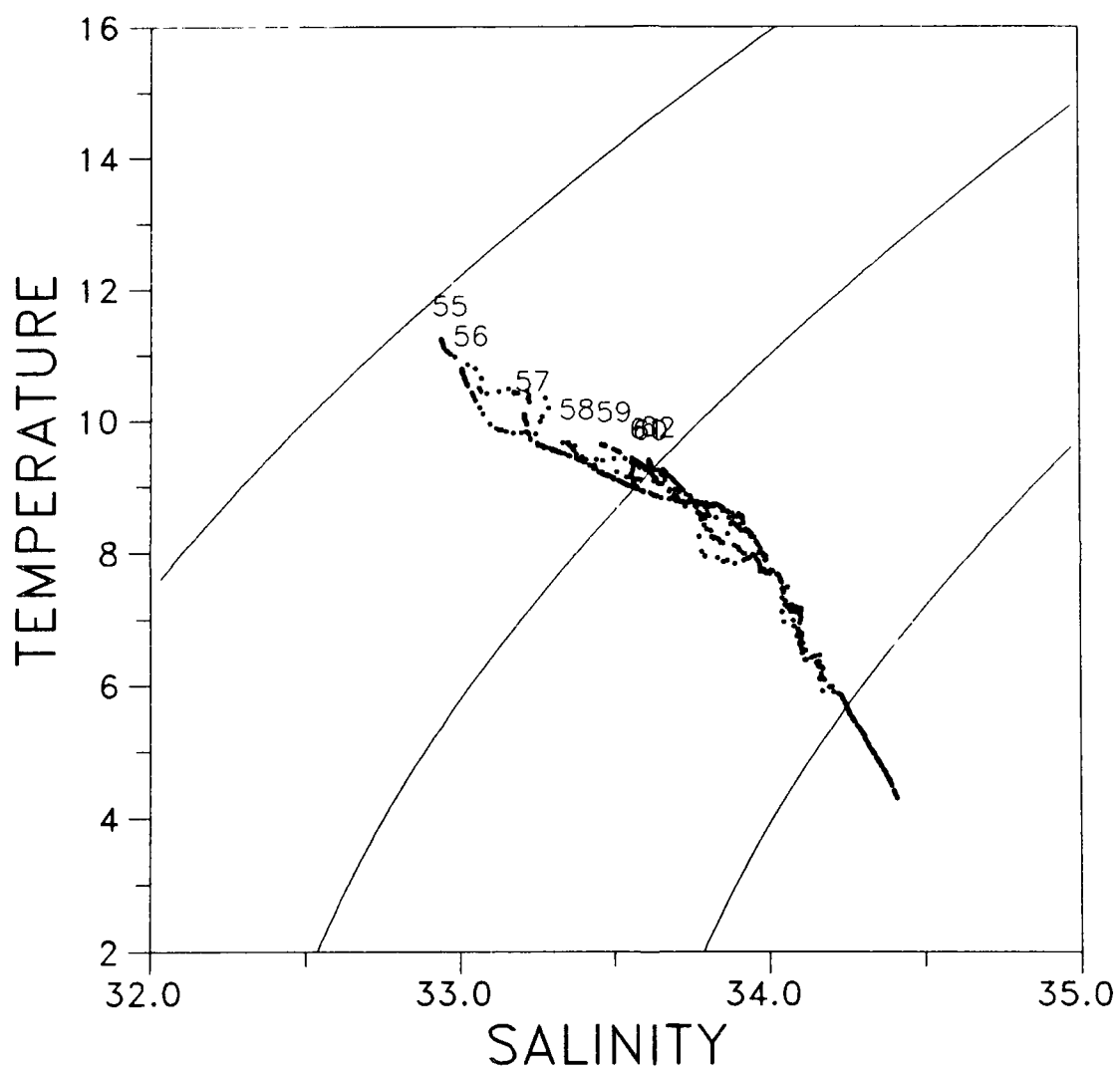


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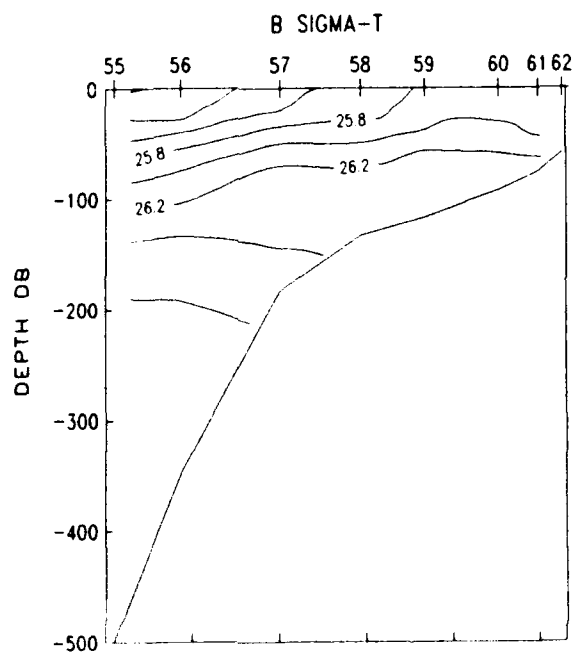
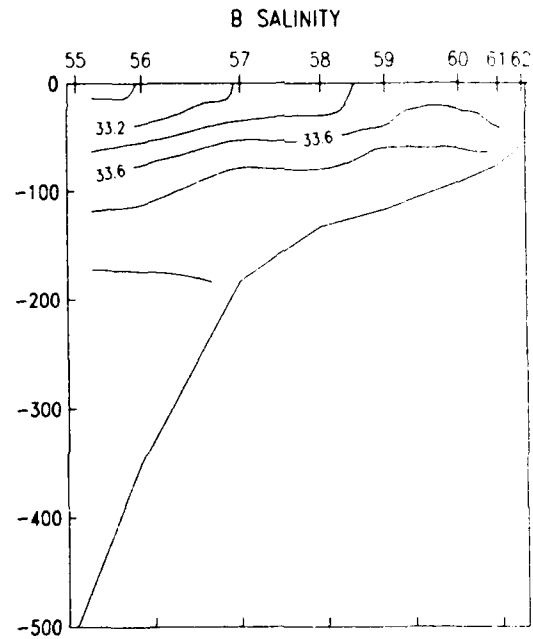
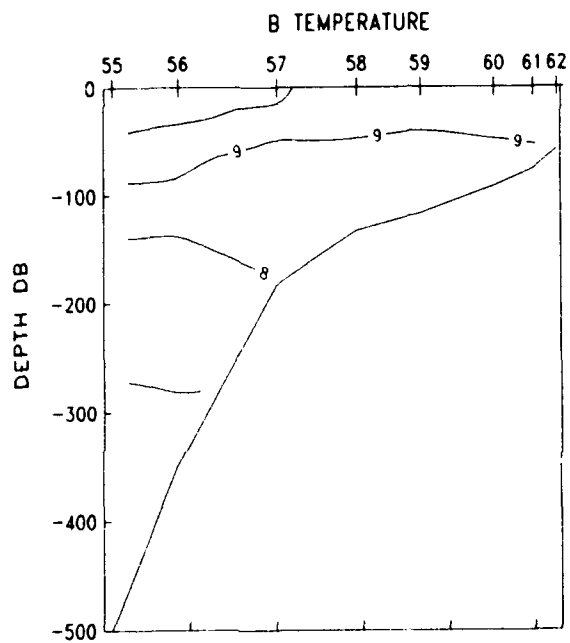


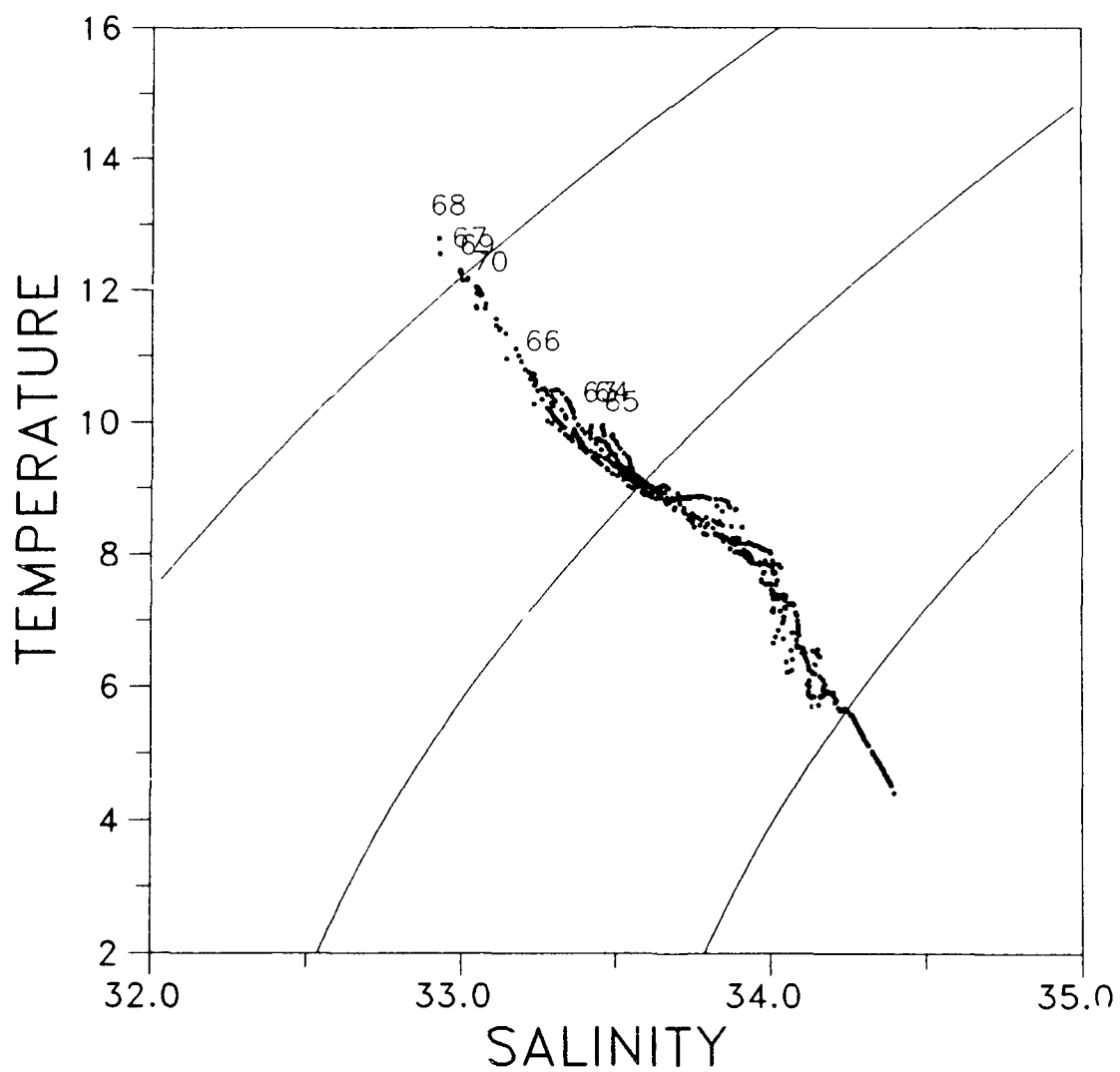
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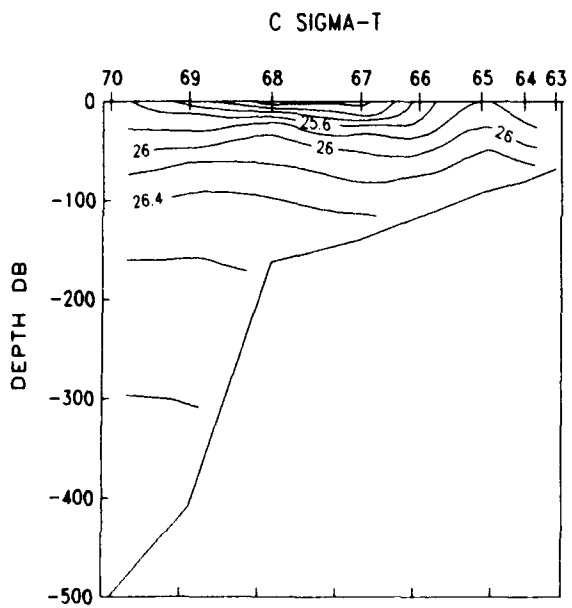
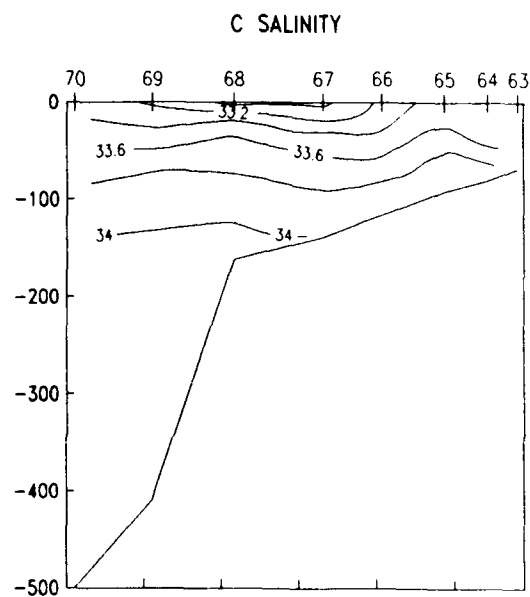
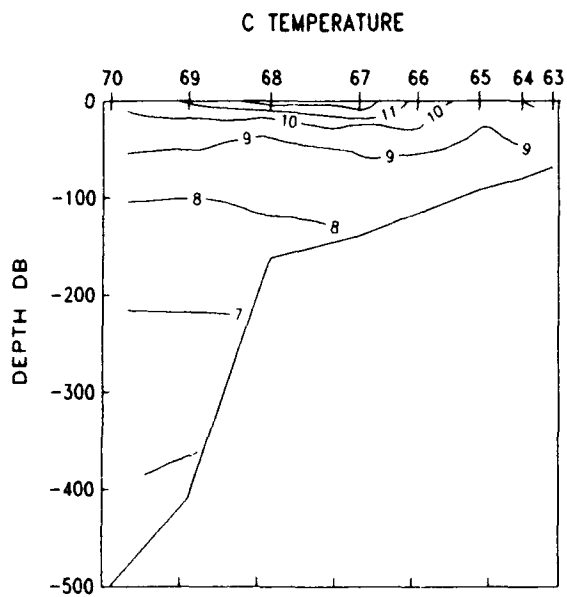


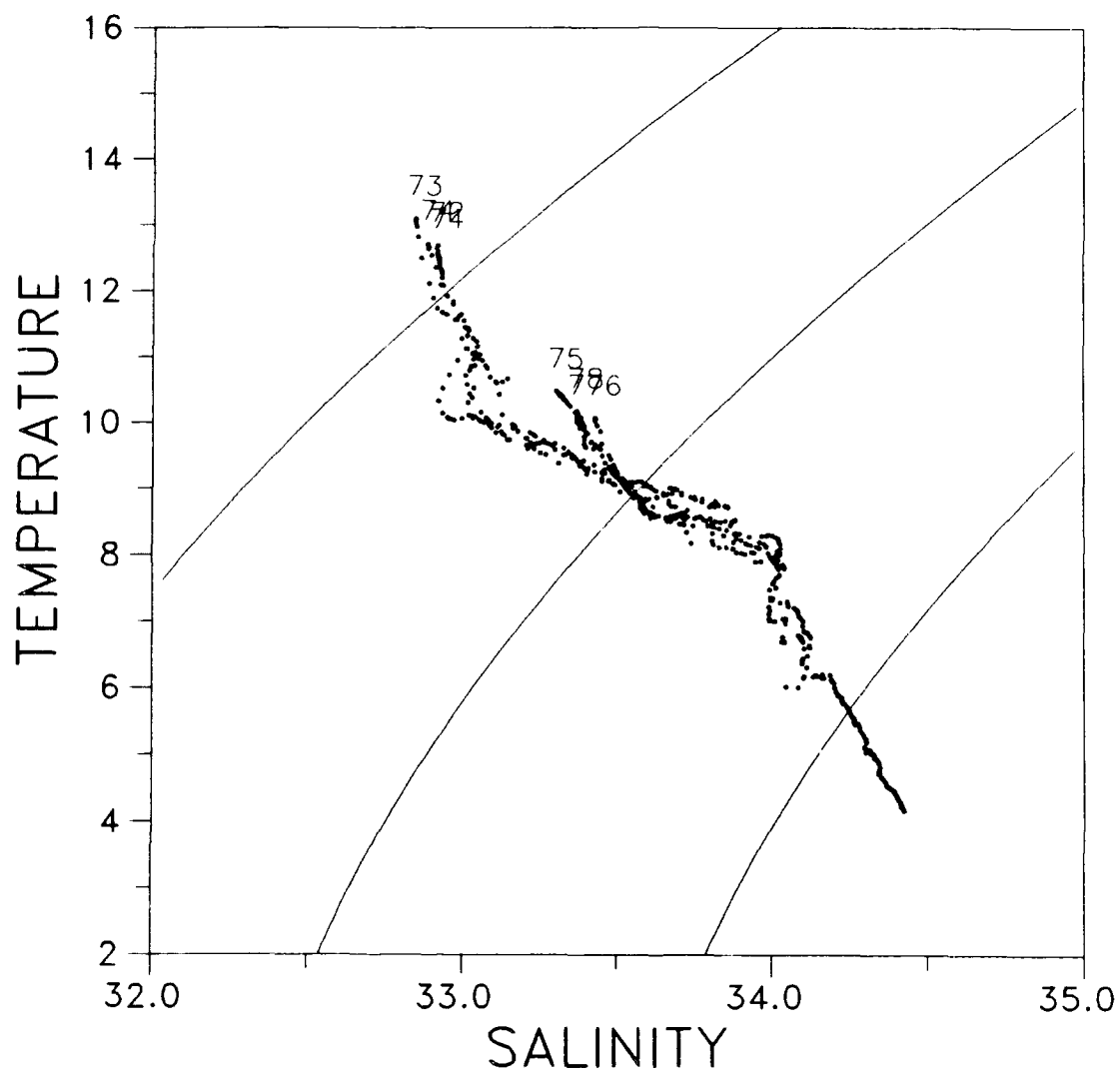


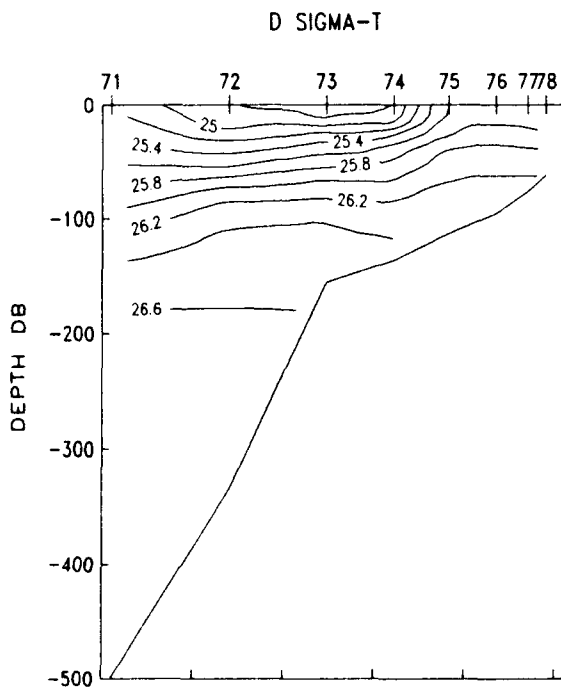
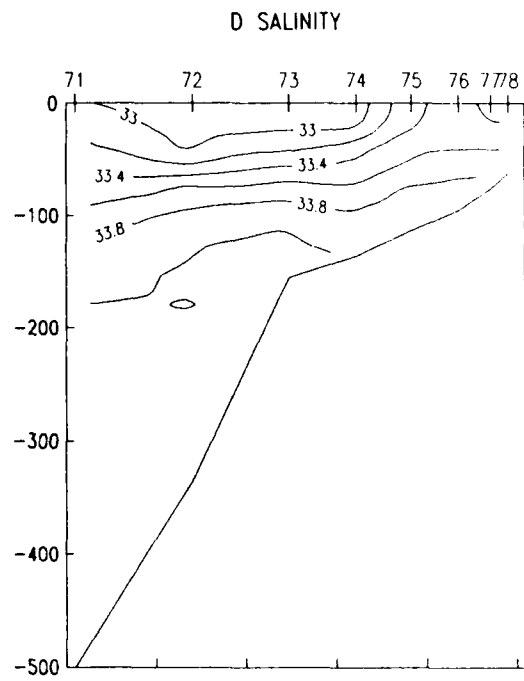
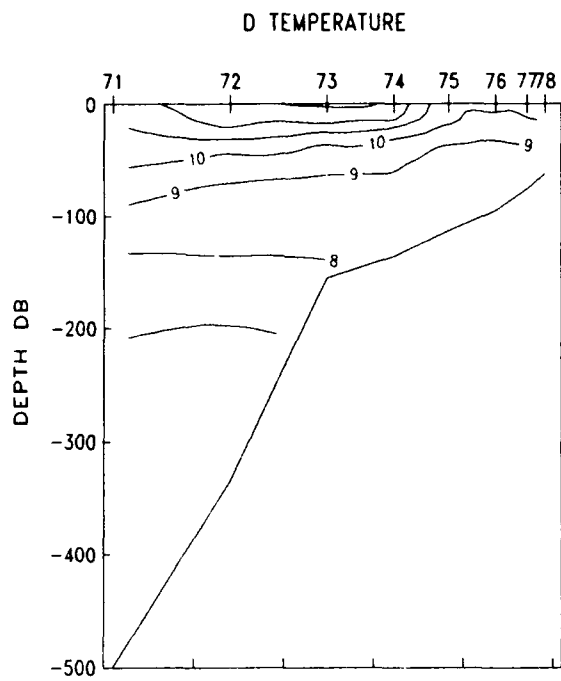


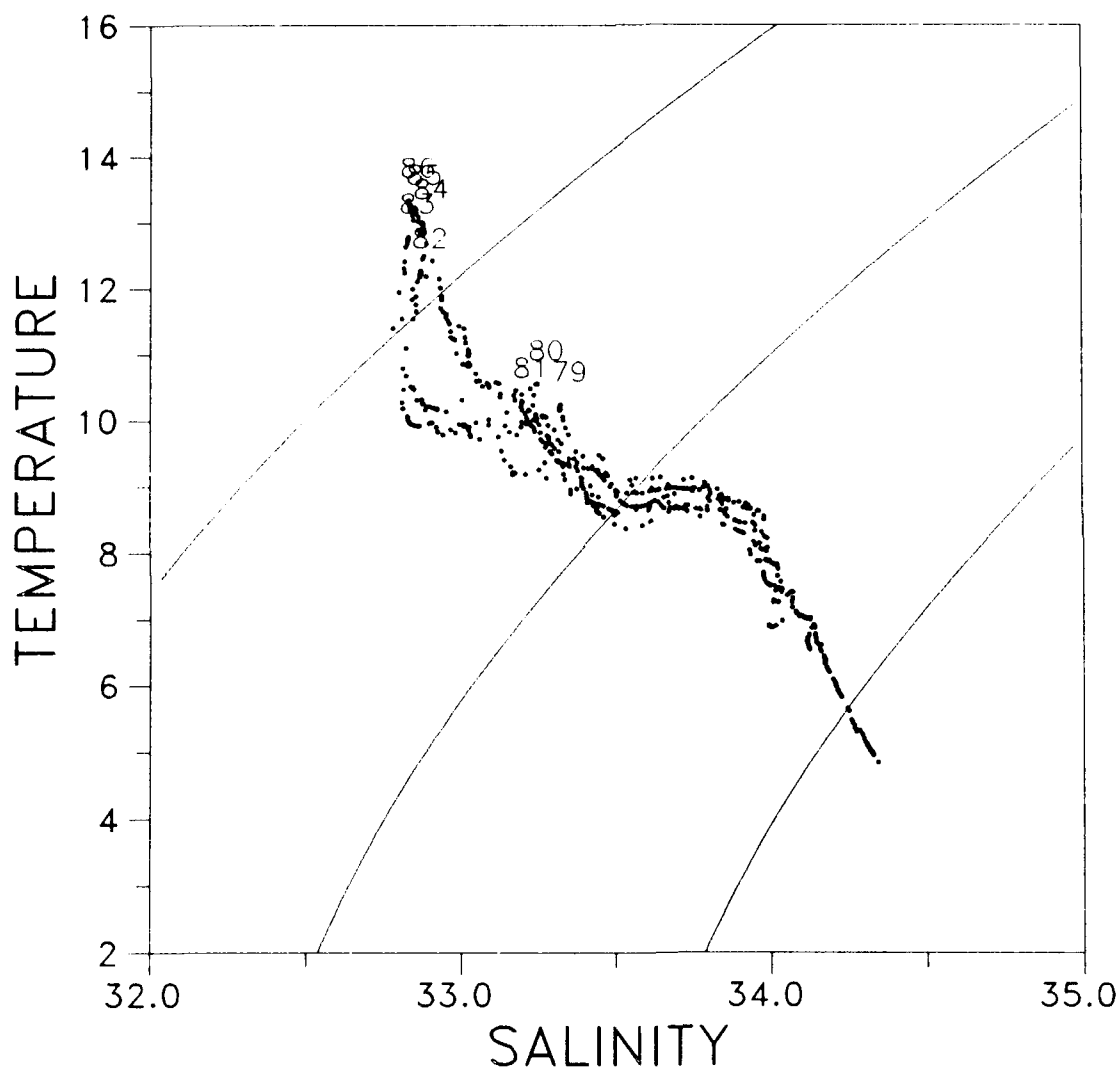


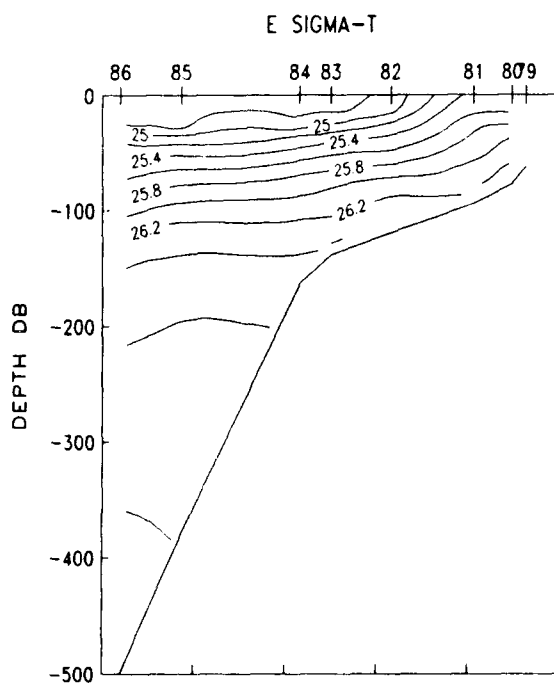
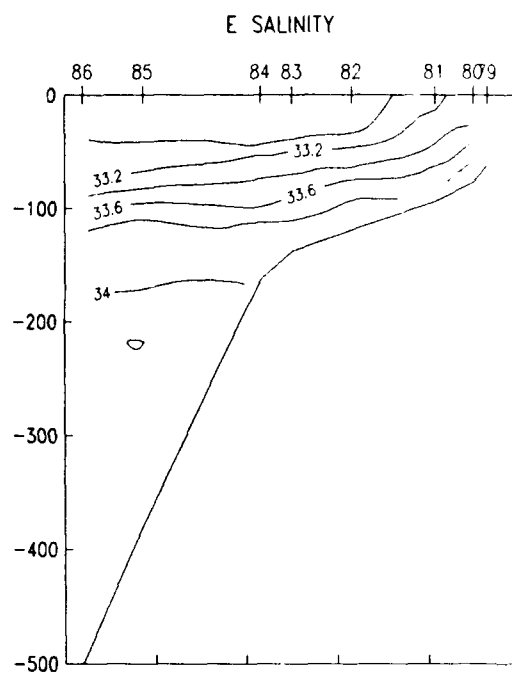
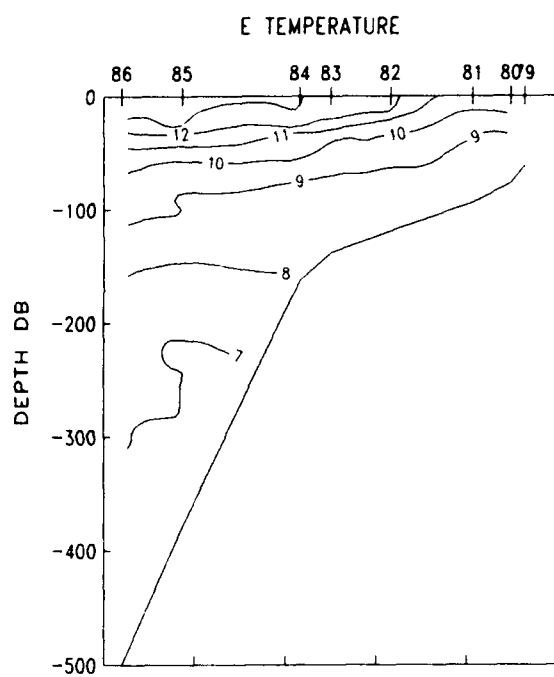


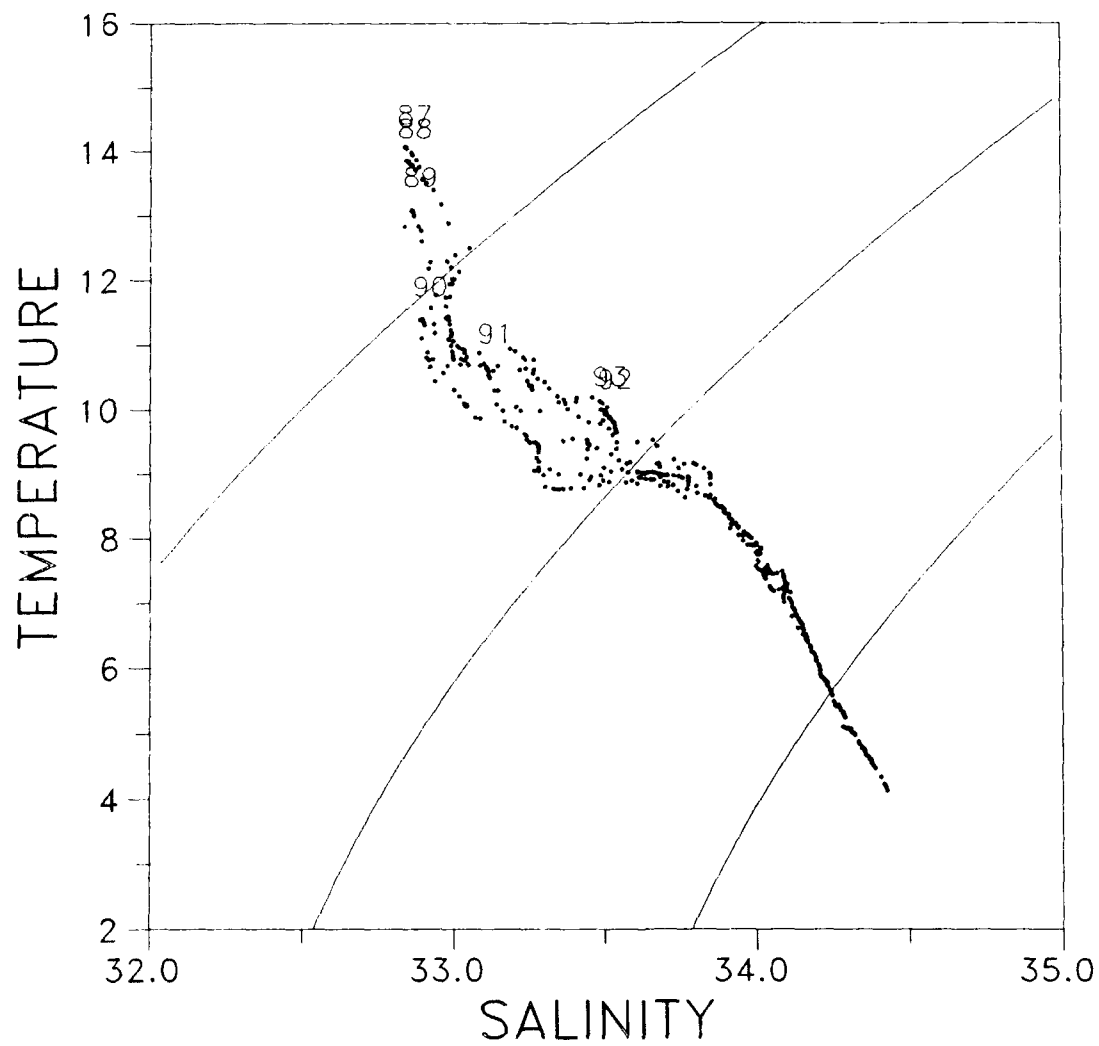




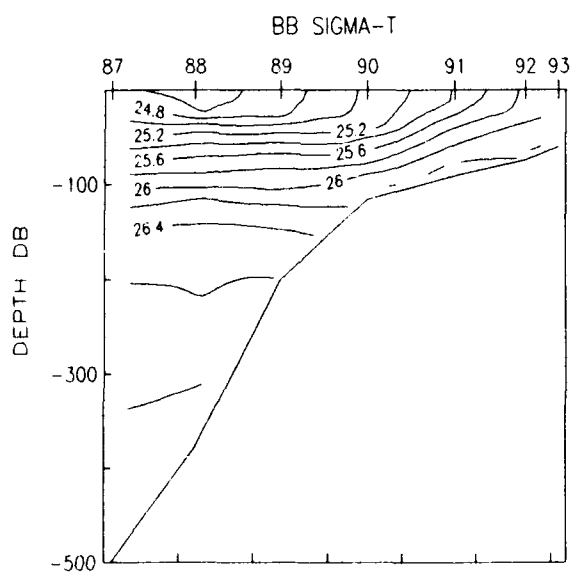
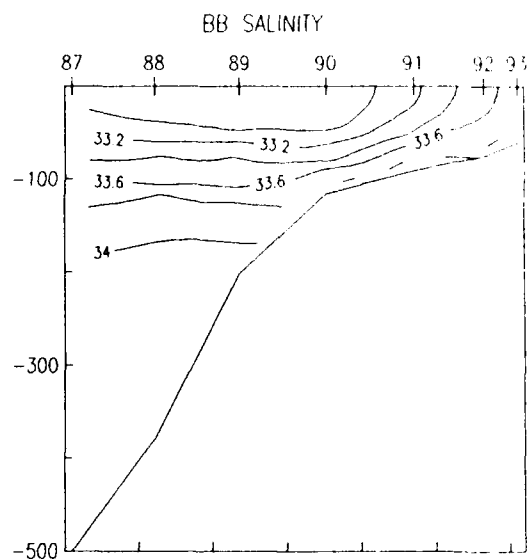
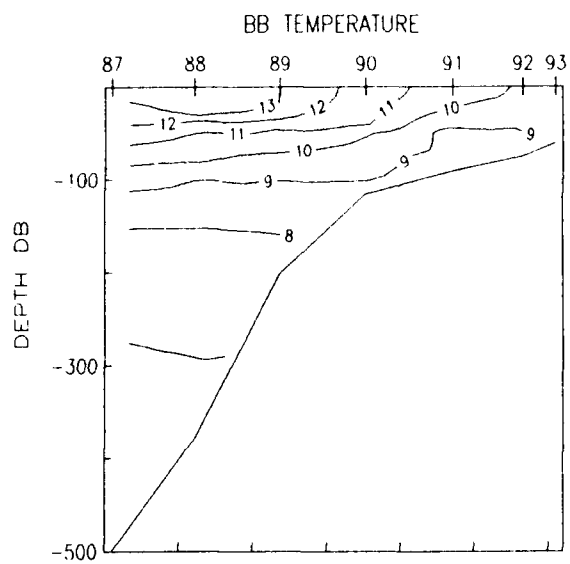




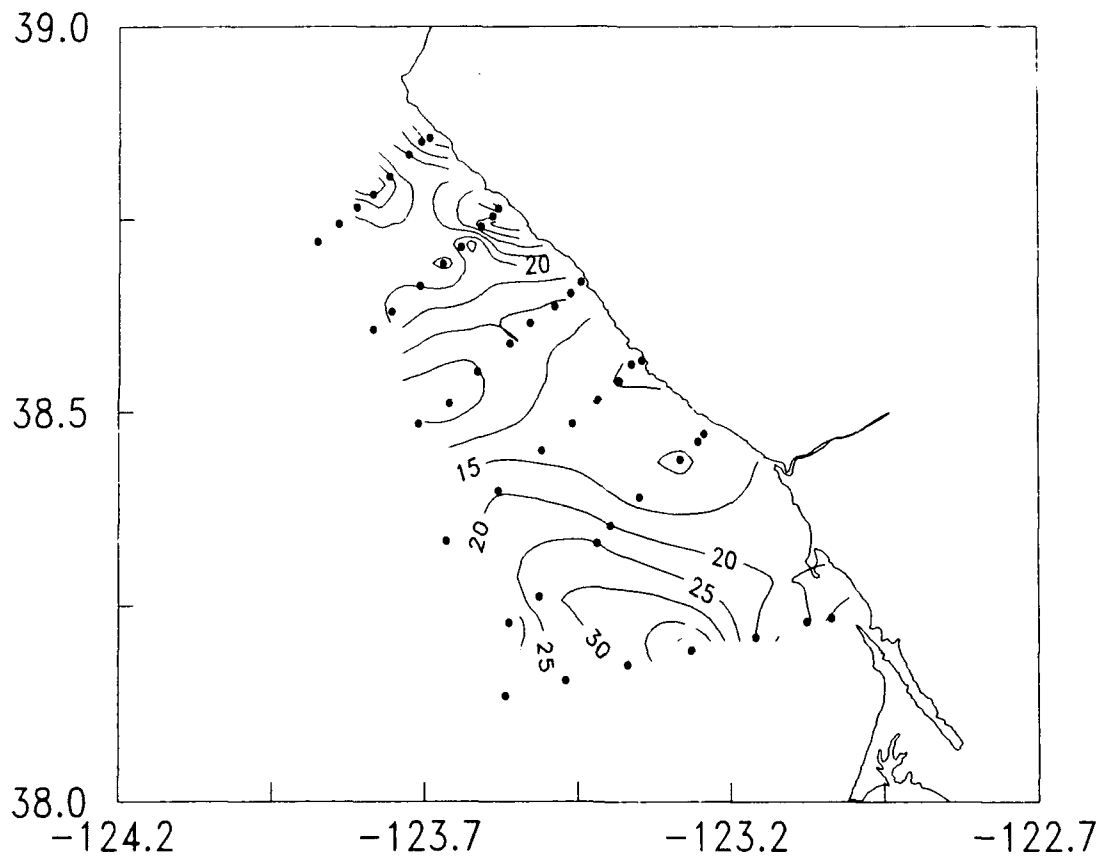




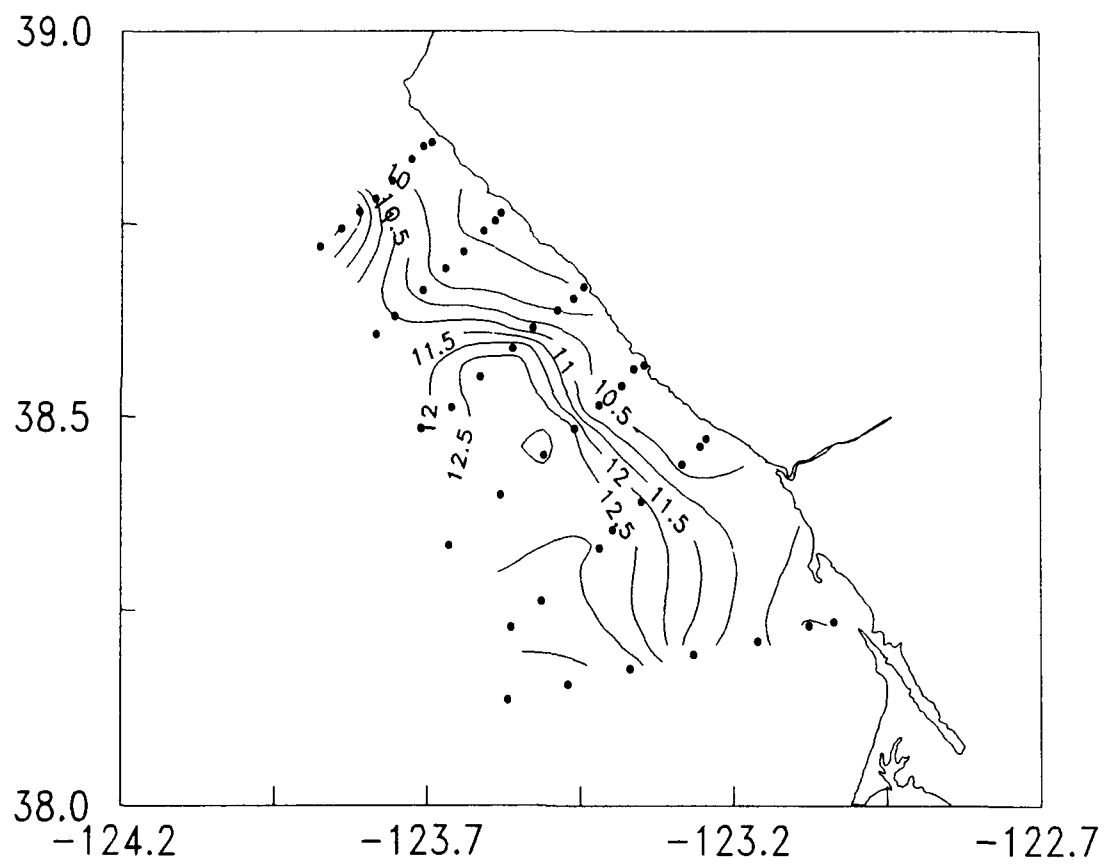




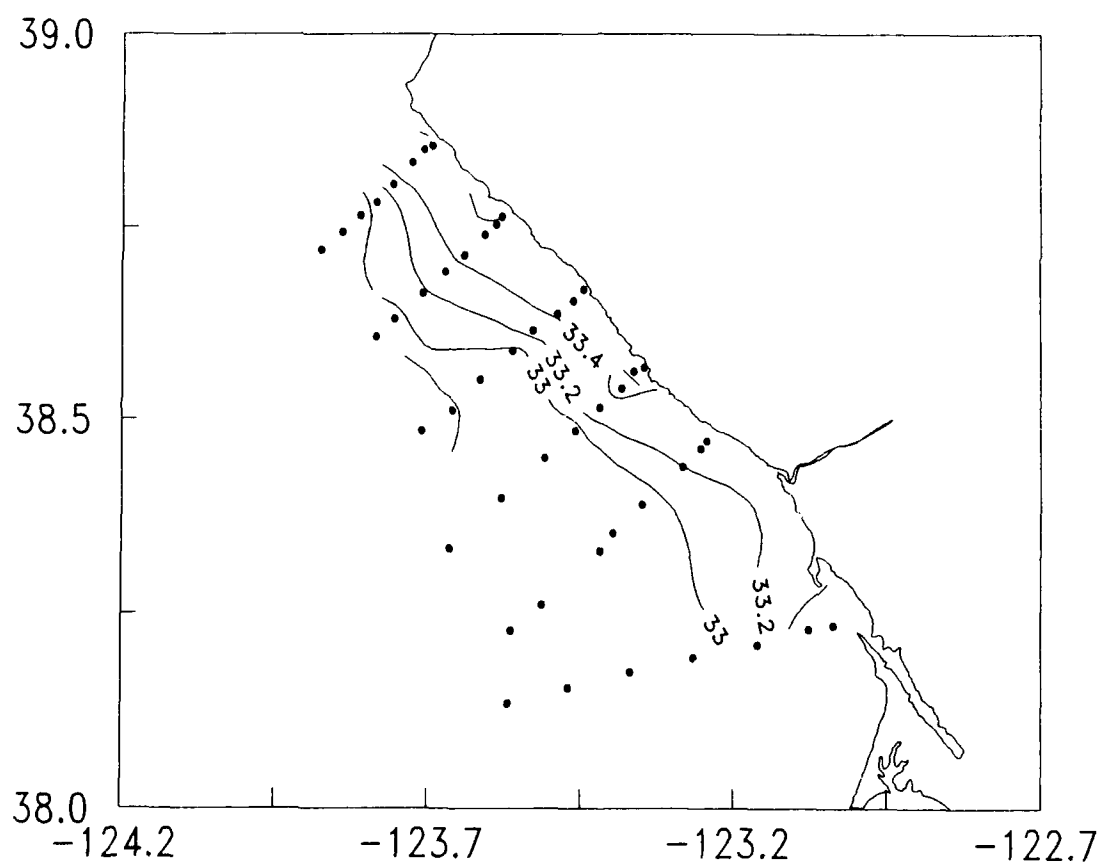
SURFACE MIXED LAYER DEPTH M MAY 8-9 1989



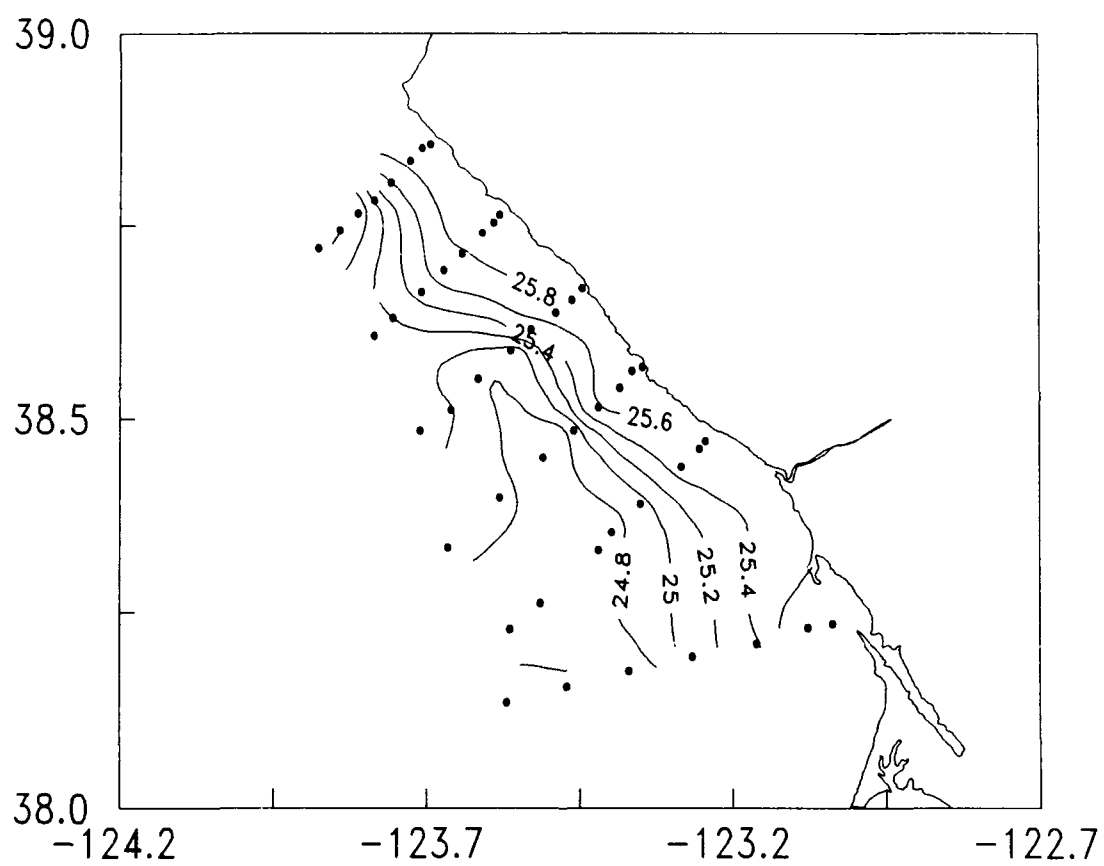
SURFACE TEMP MAY 8-9 1989



# SURFACE SALINITY MAY 8-9 1989



SURFACE SIGMA-T MAY 8-9 1989

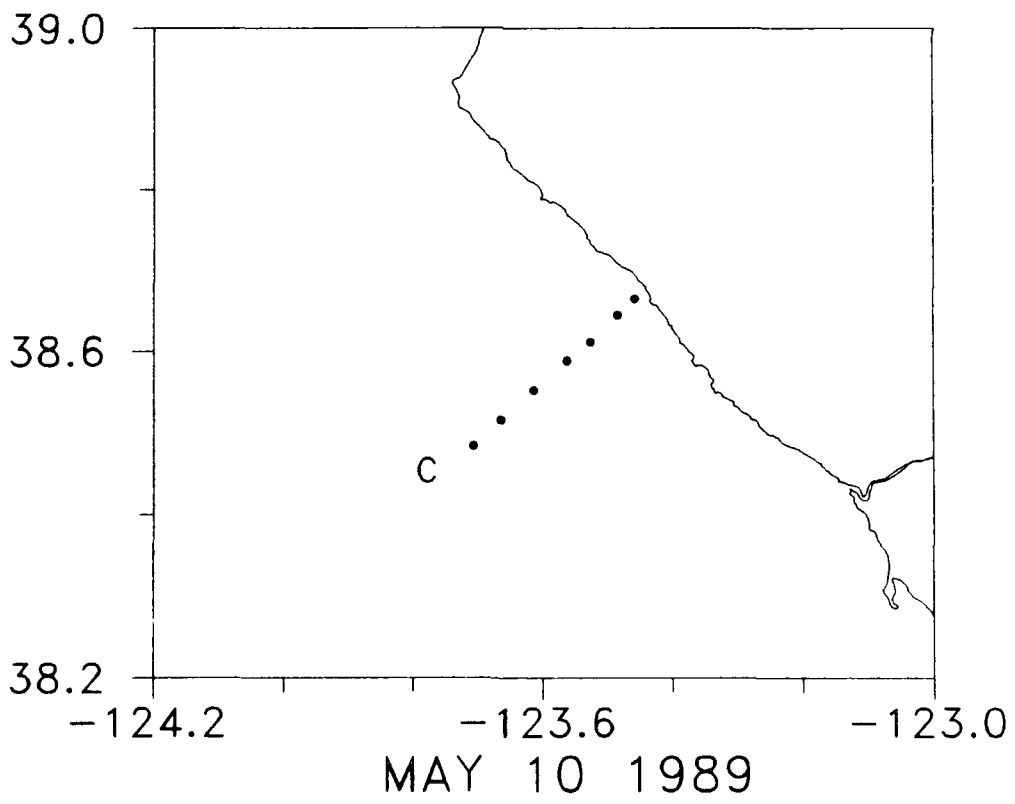
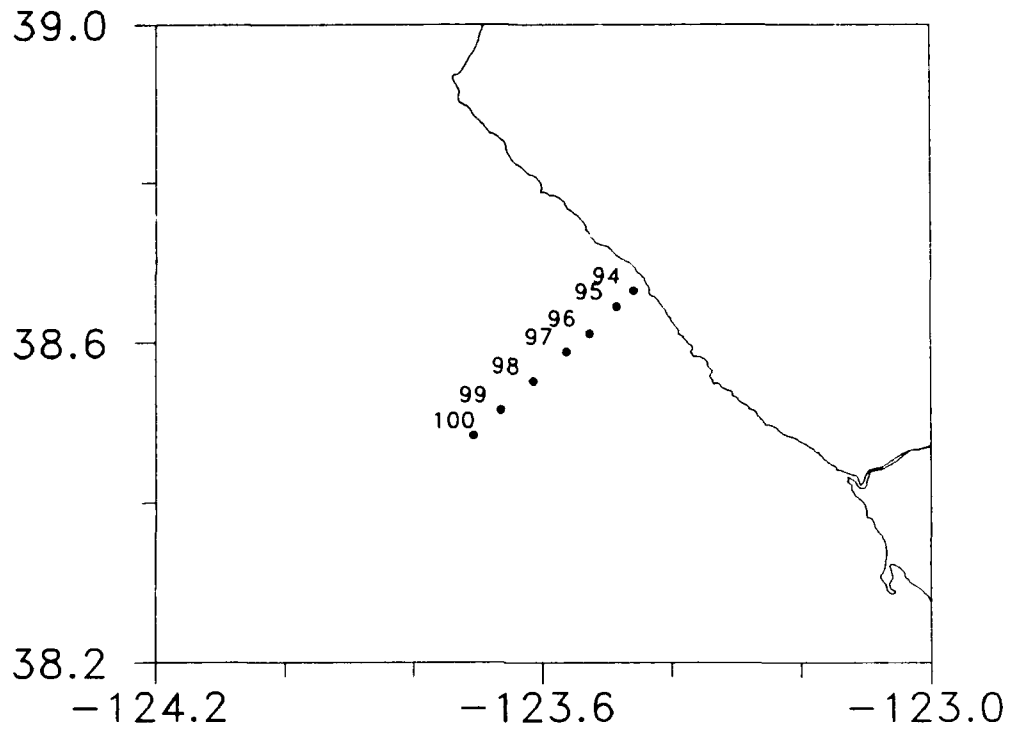


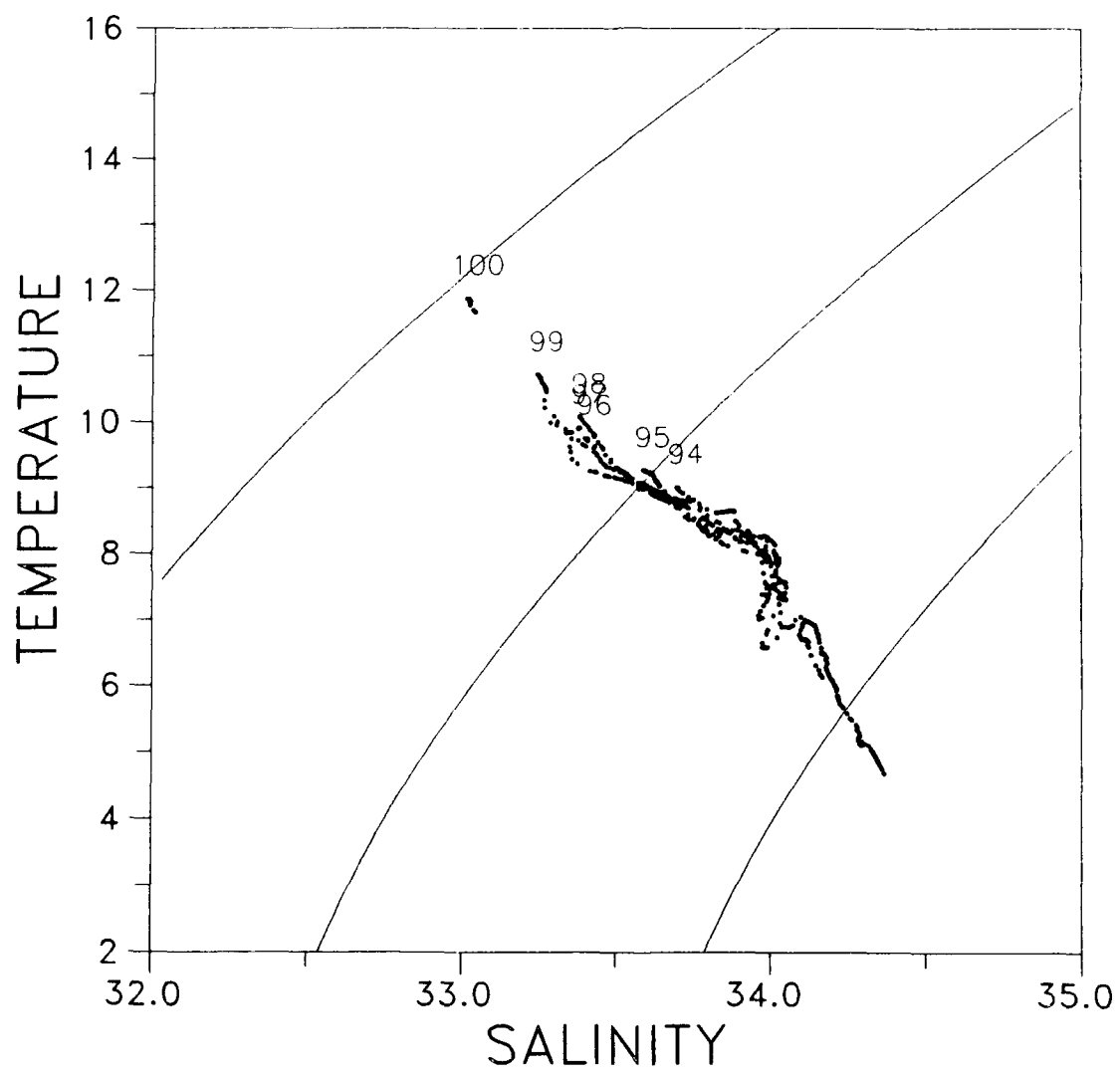


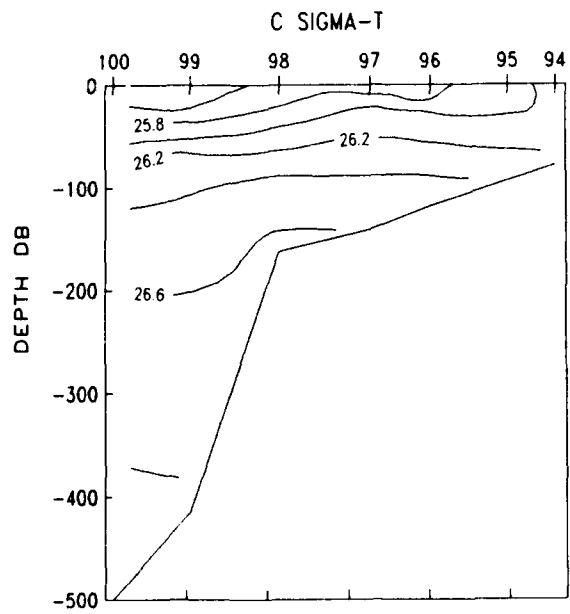
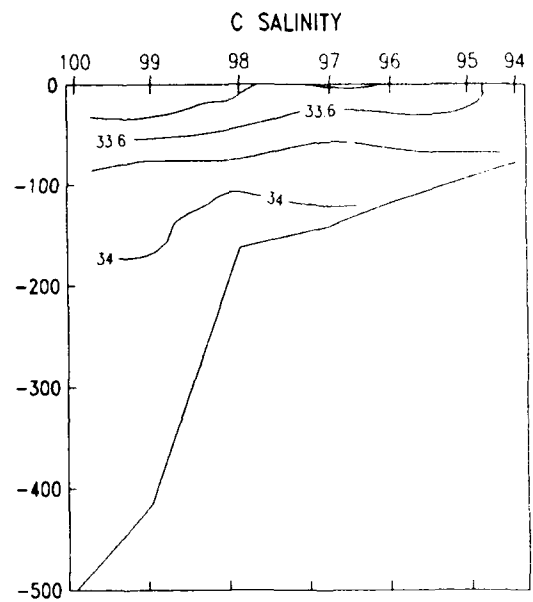
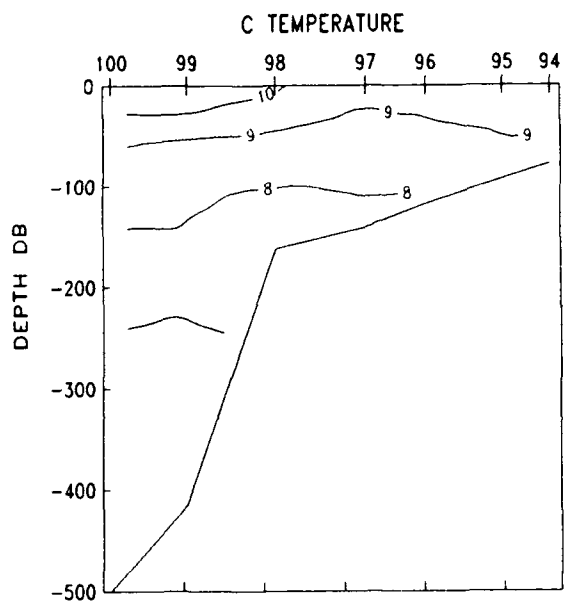
**C. Section C — May 10, 1989**  
**Stations 94 to 100**







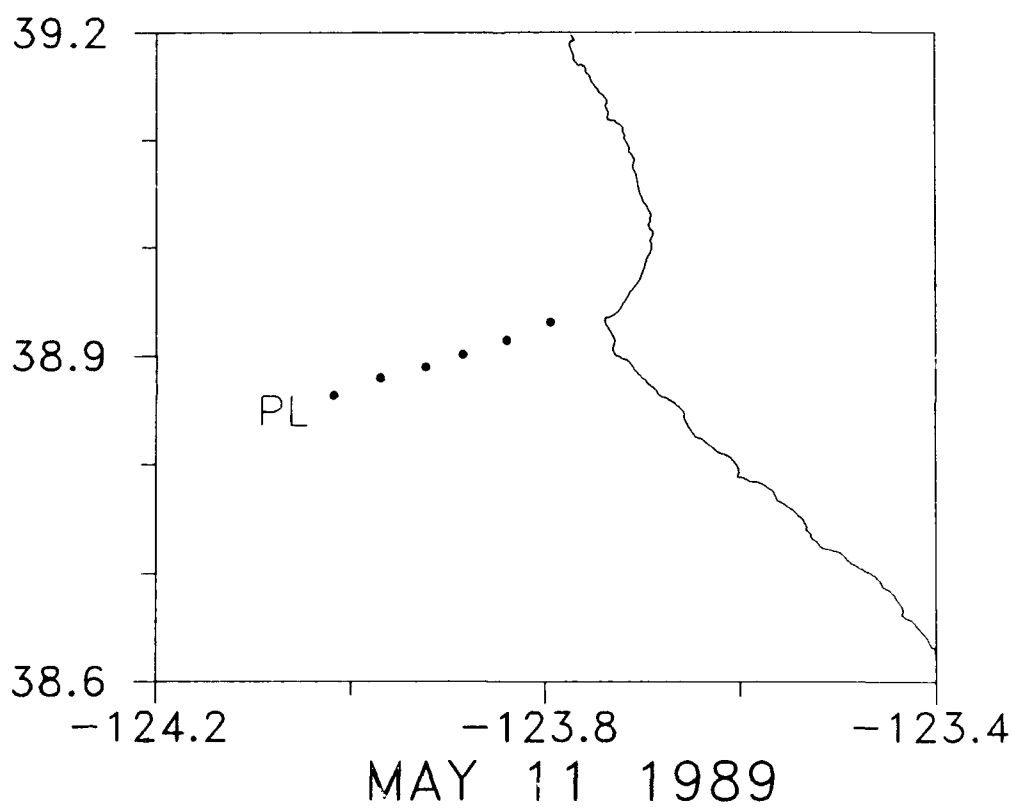
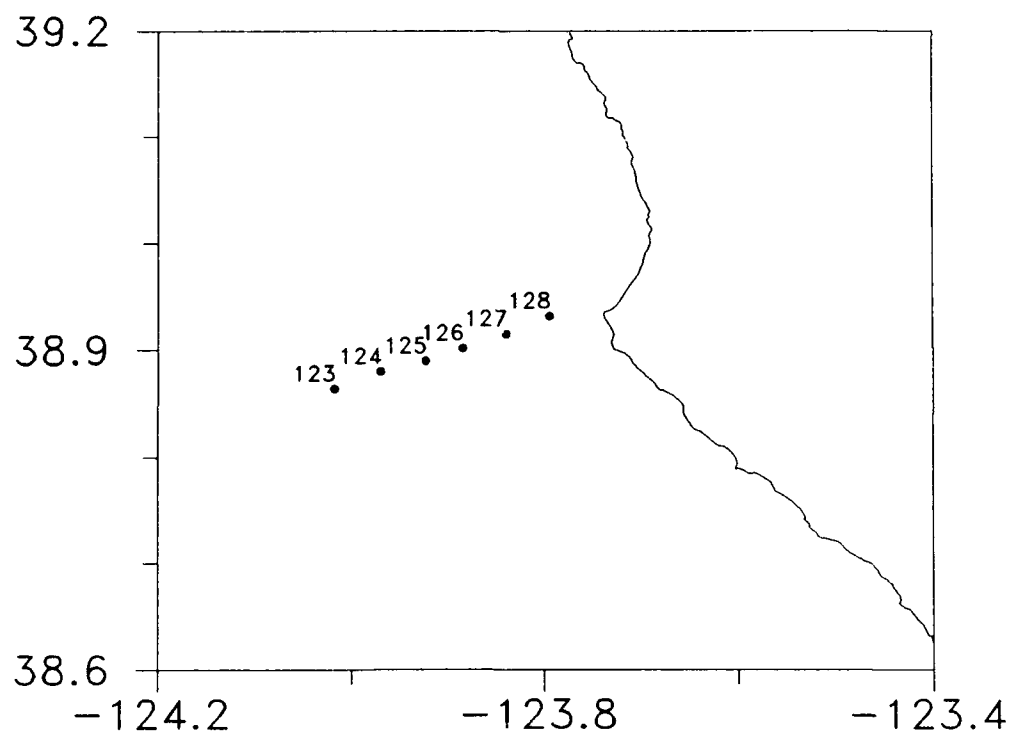


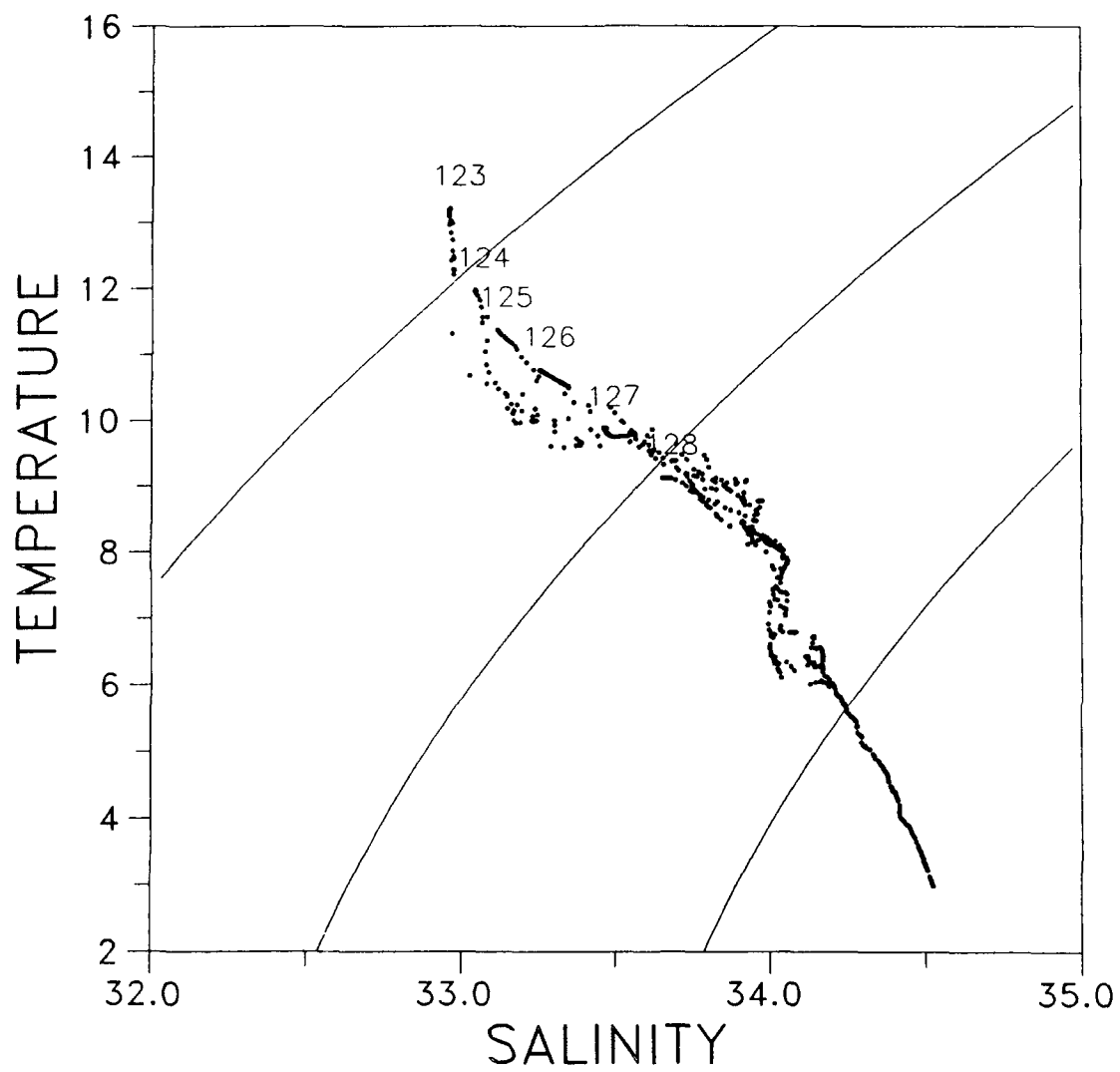




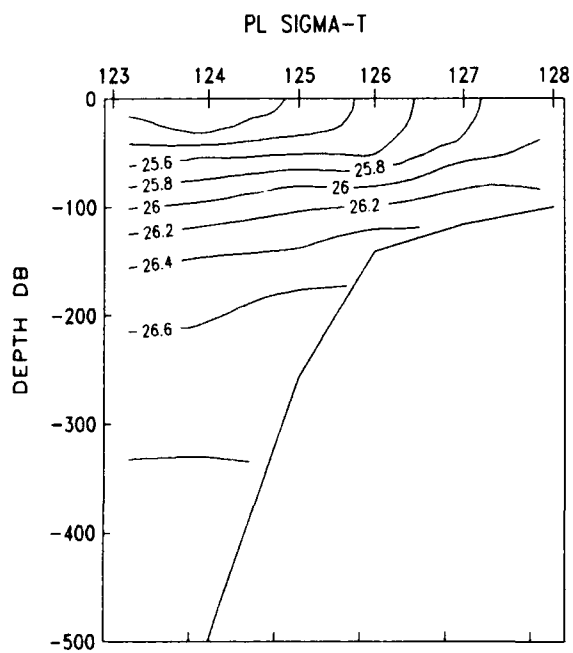
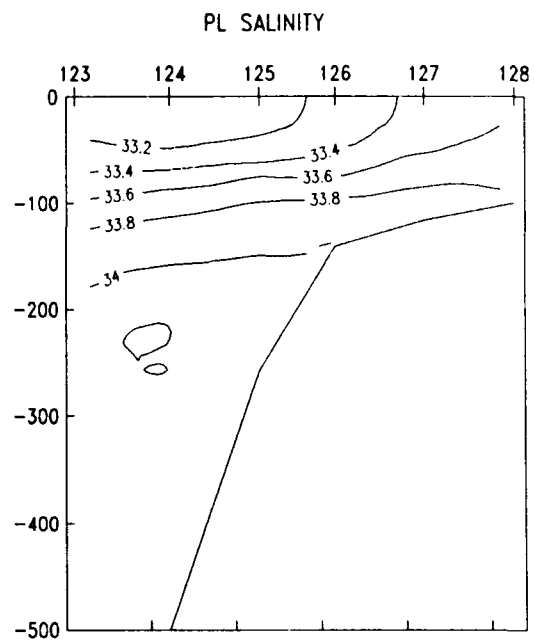
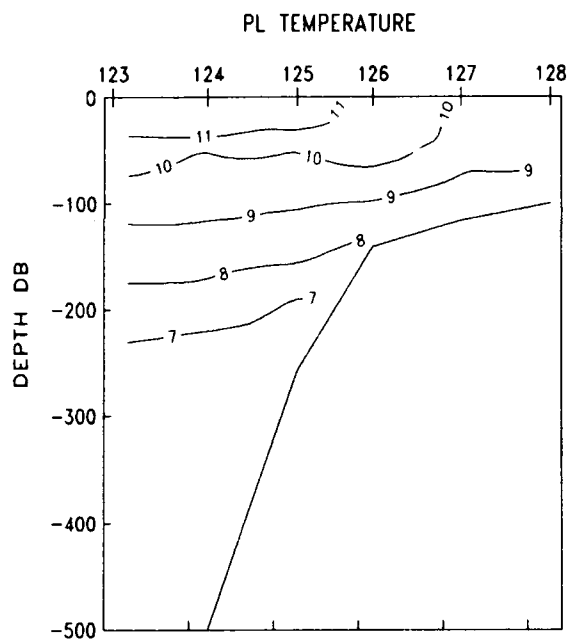
**D. Section PL — May 11, 1989 — Stations 123 to 128**







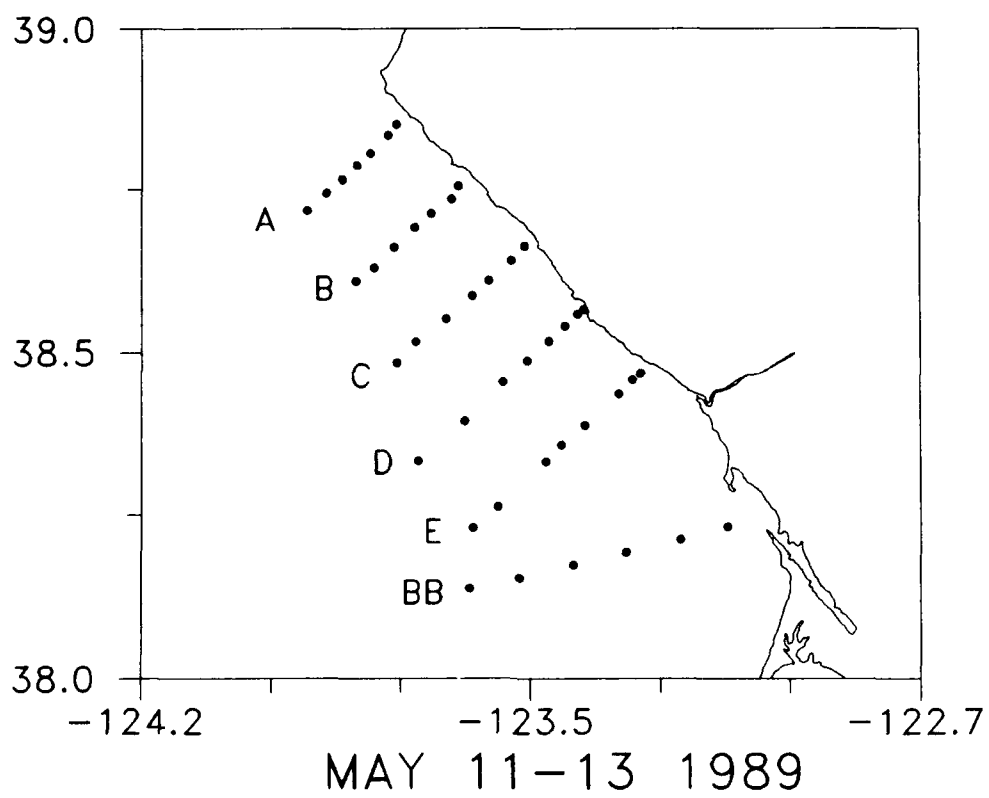
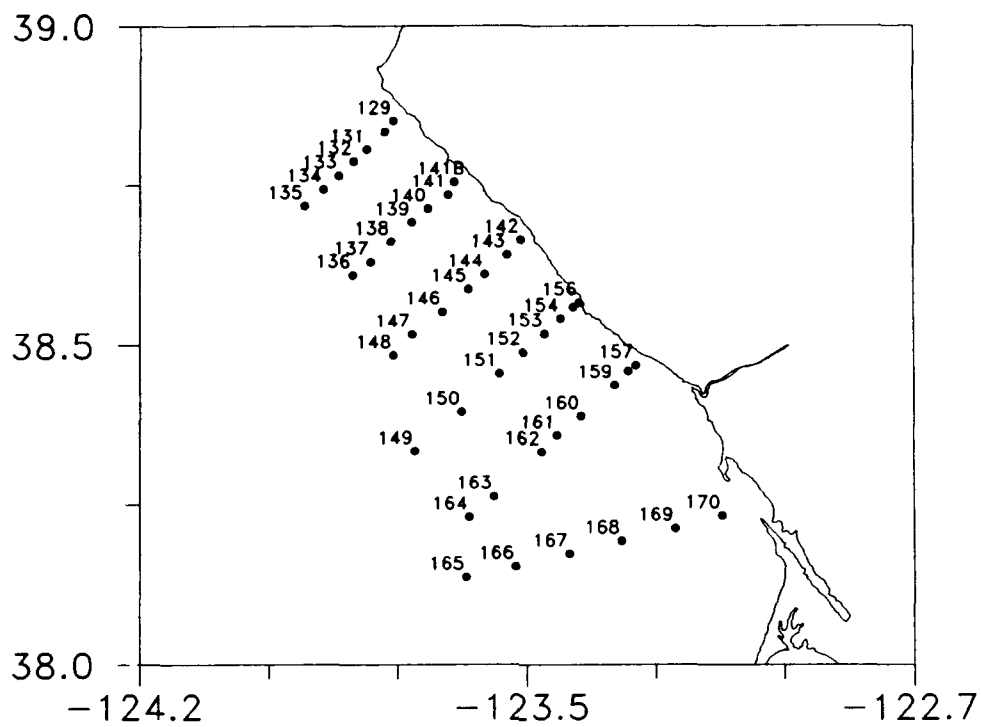


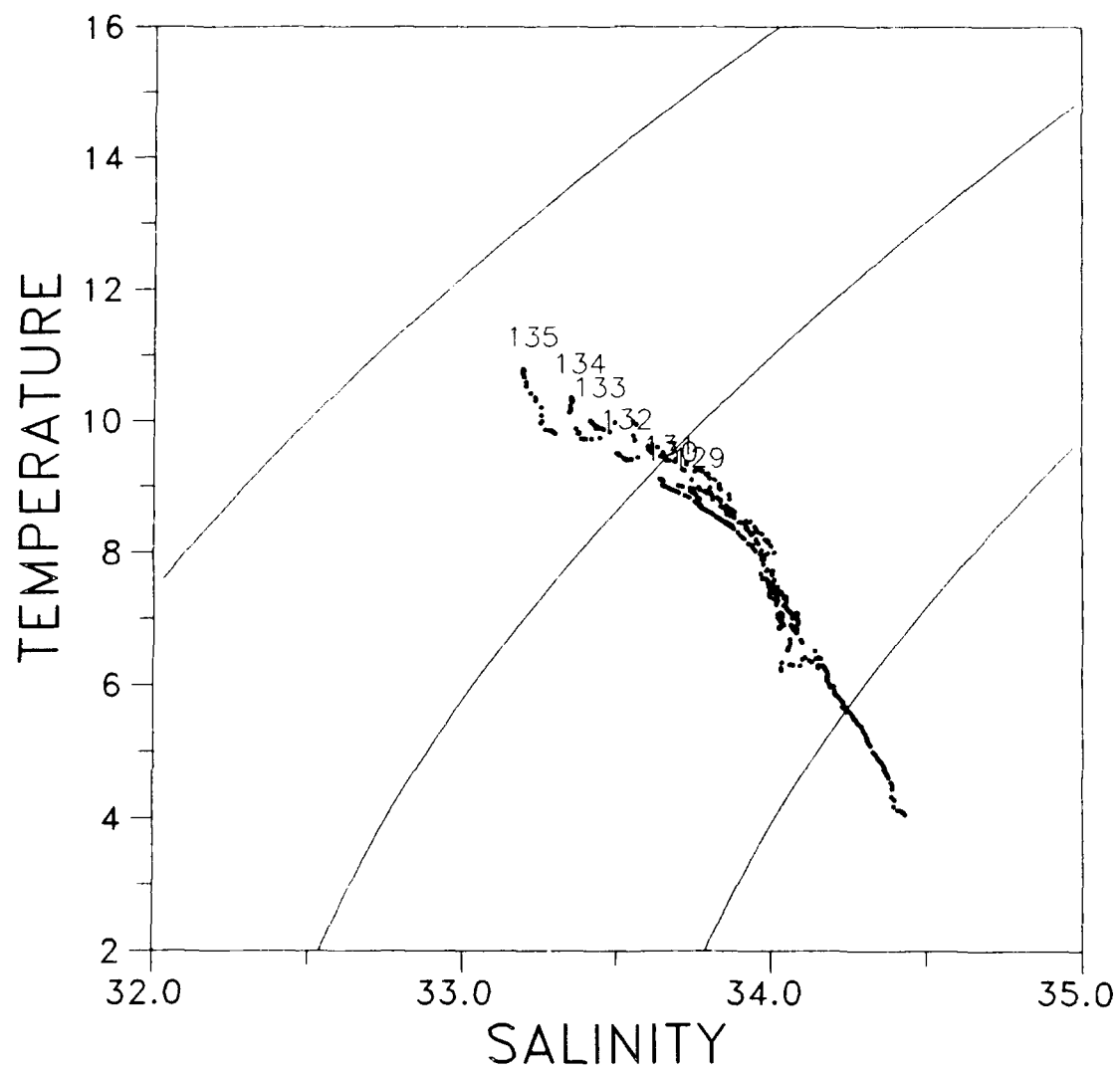


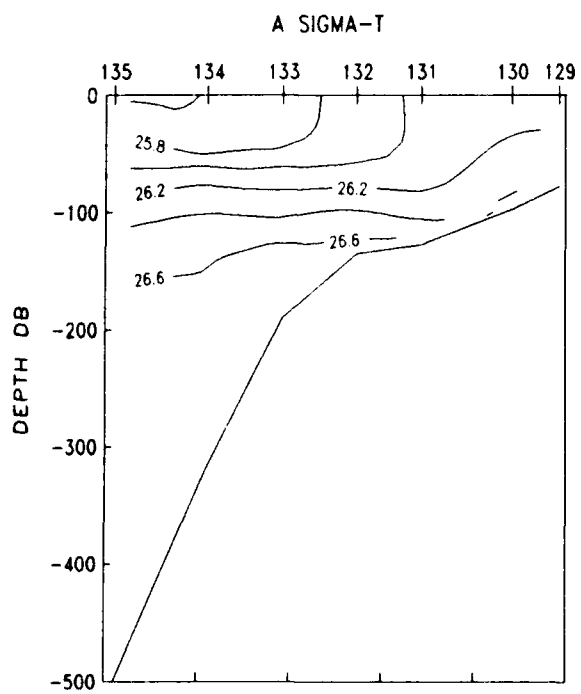
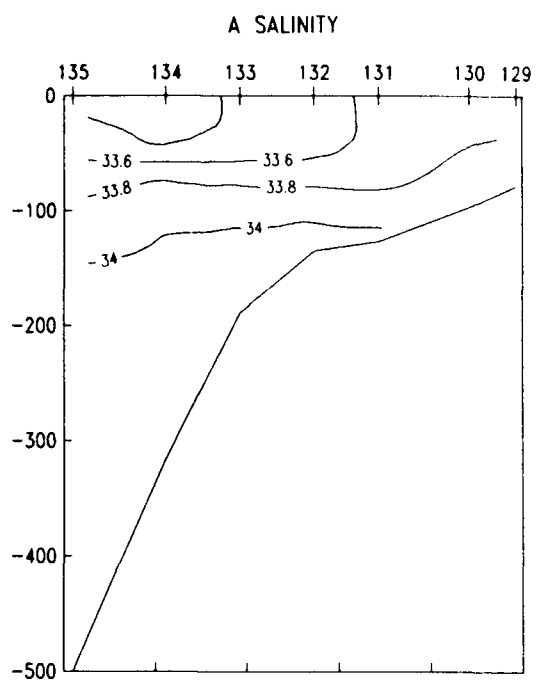
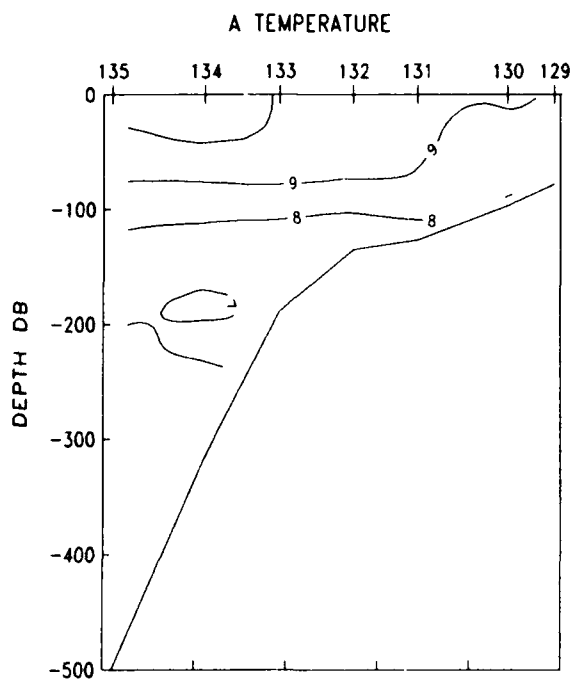


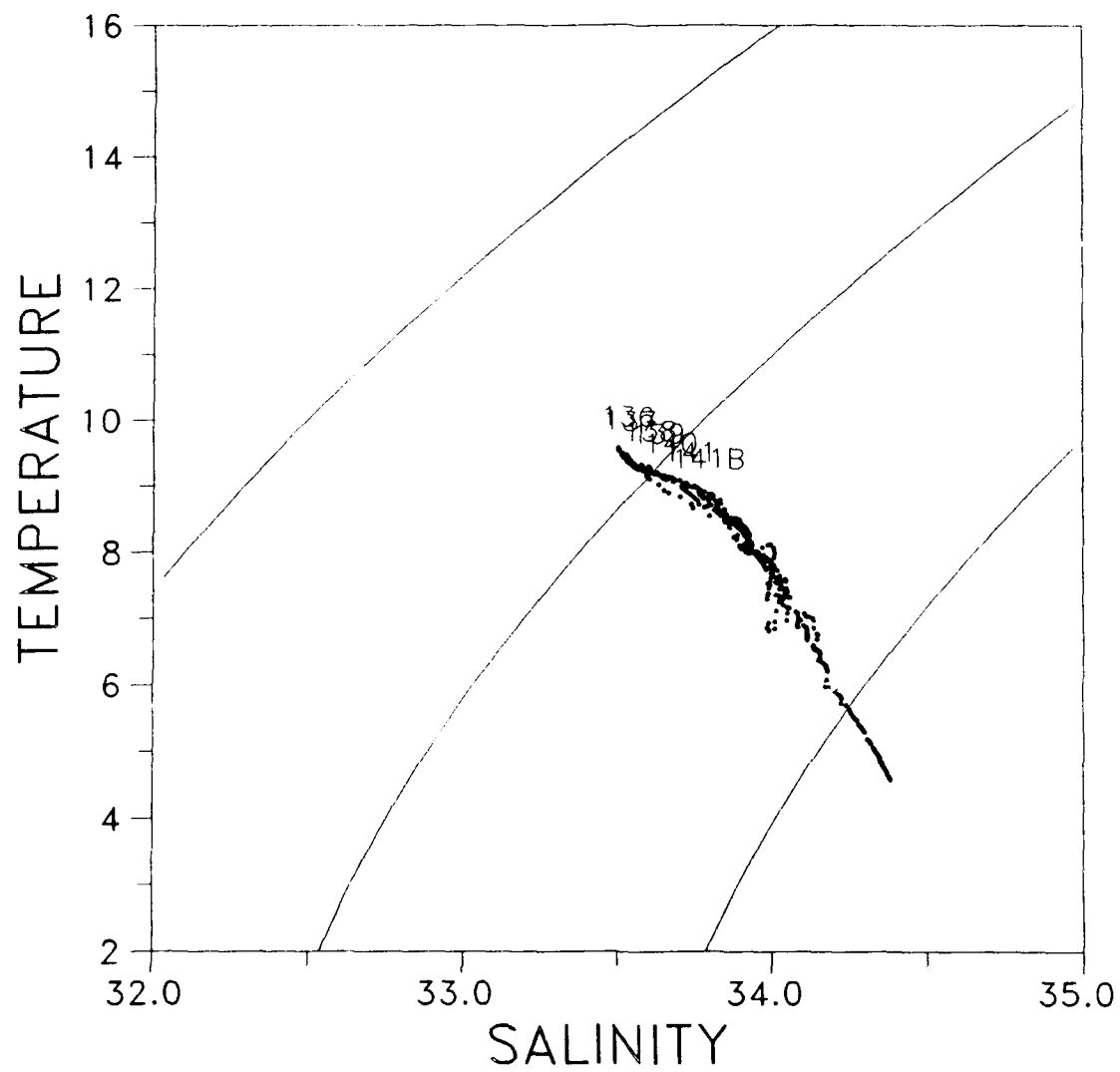
**E. Small-Scale Survey — May 11–13, 1989**  
**Stations 129 to 170**



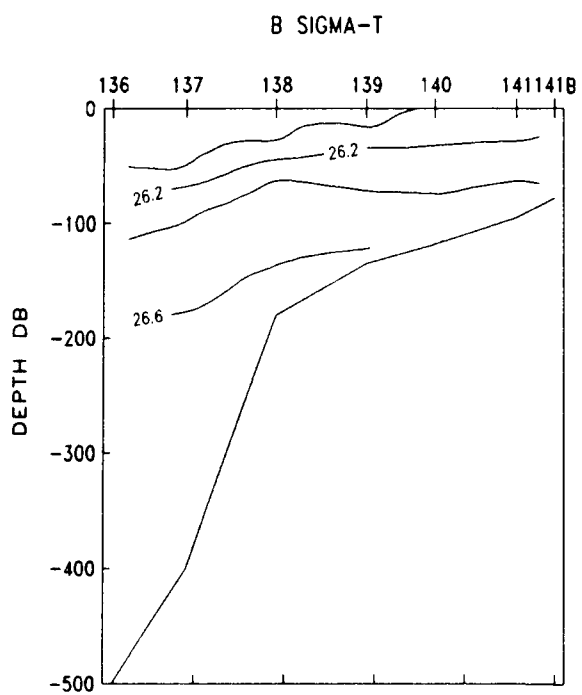
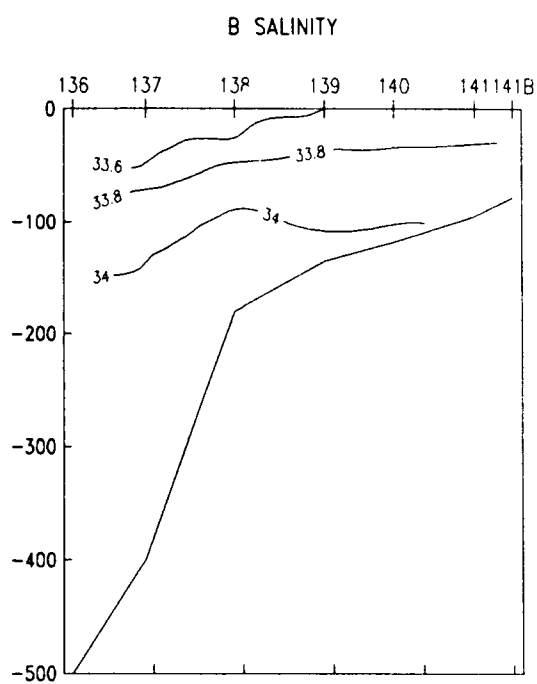
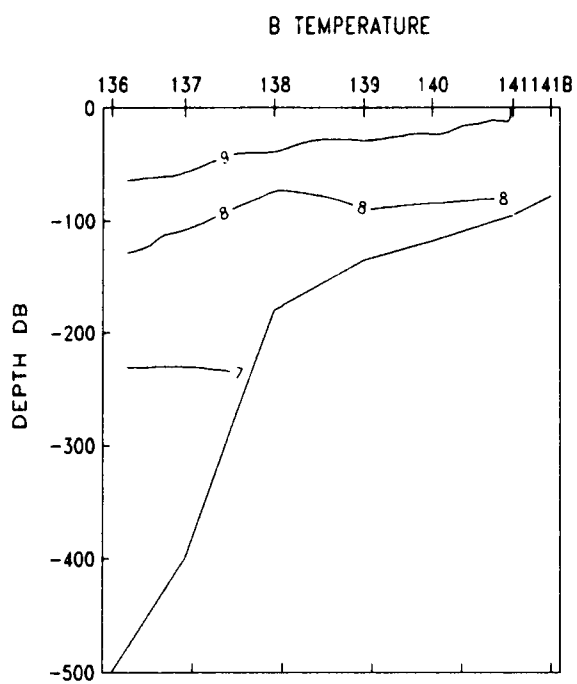


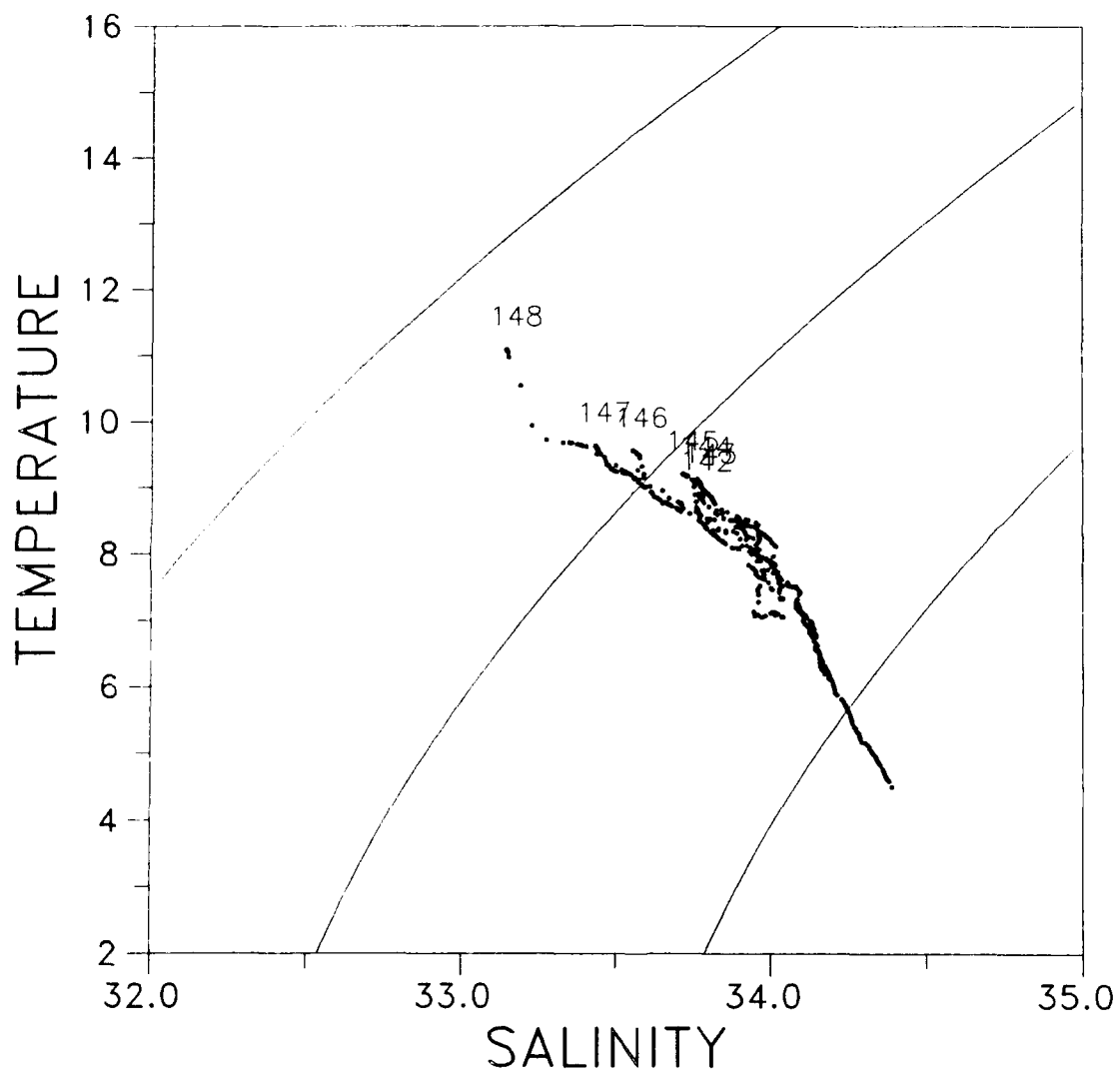


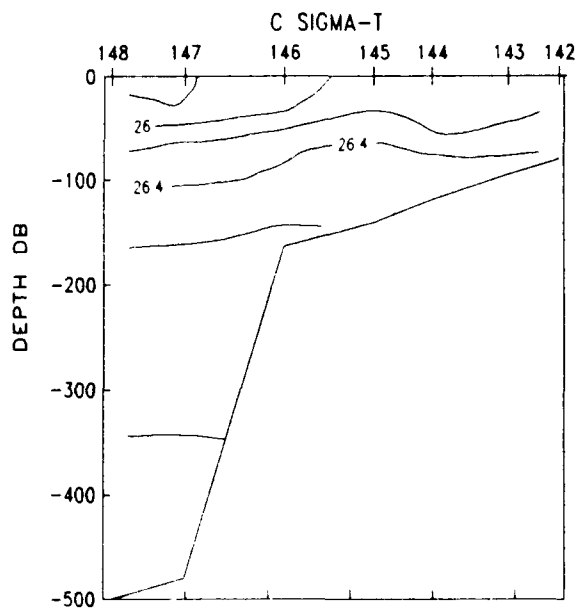
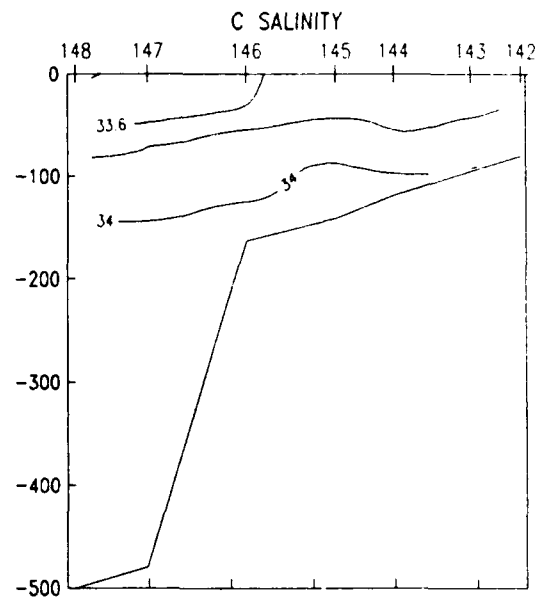
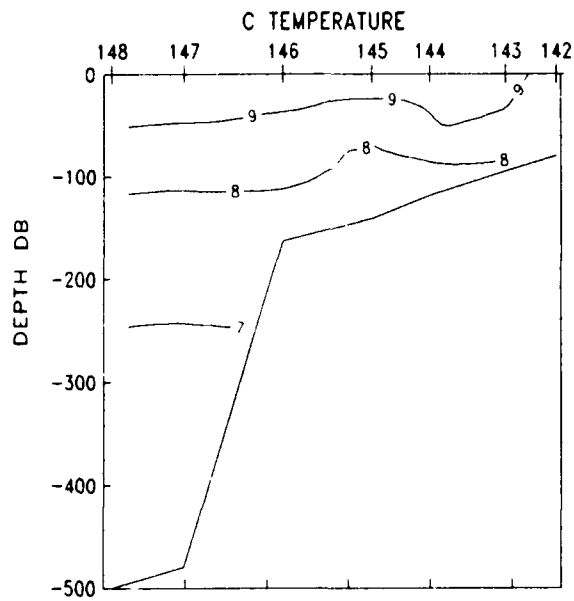


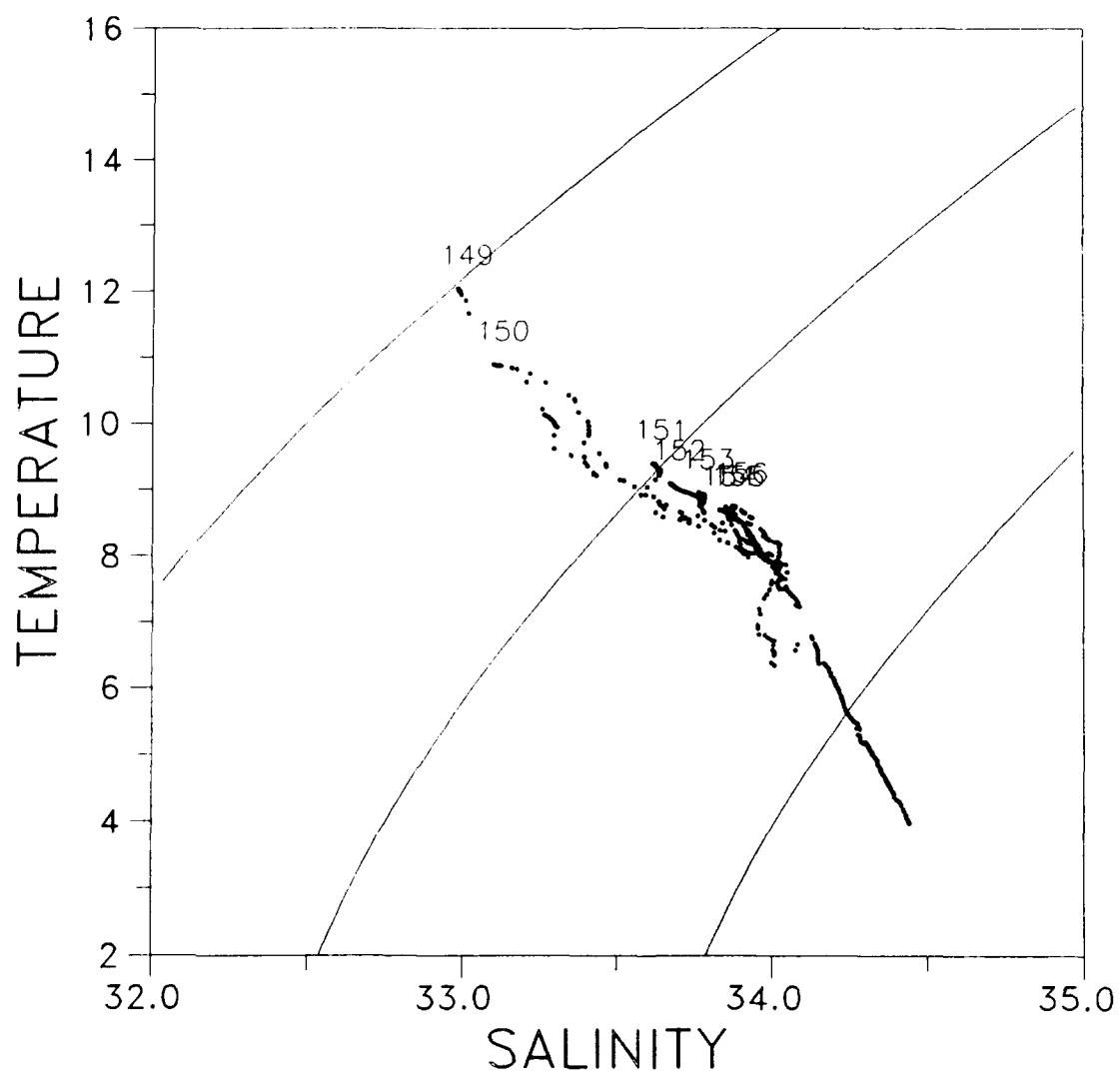


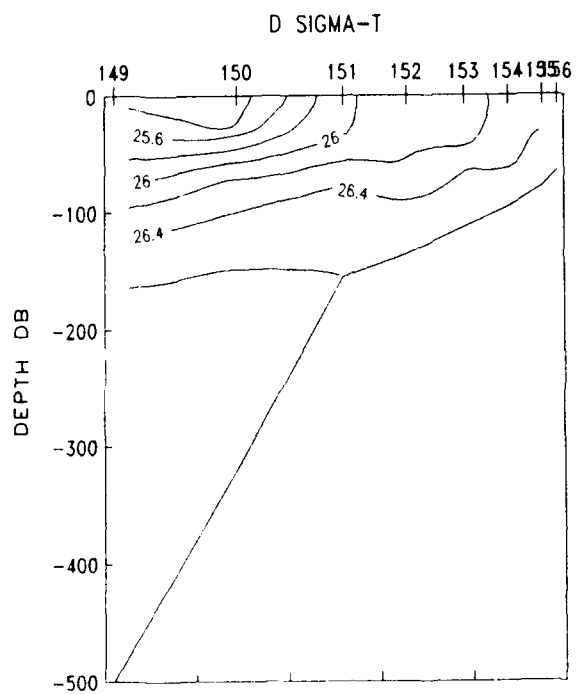
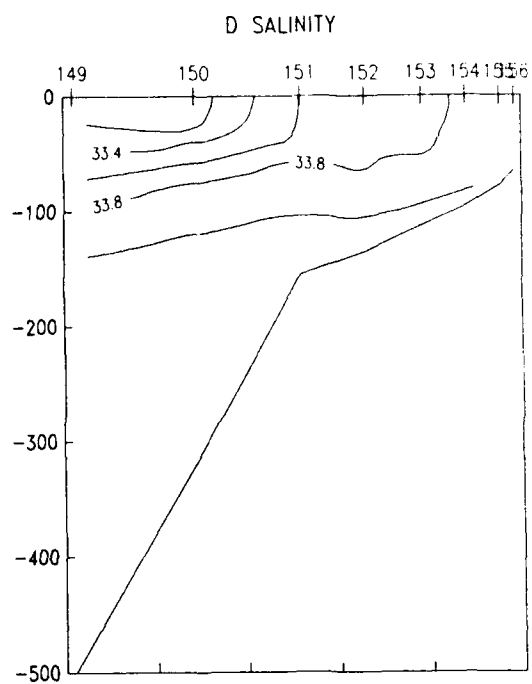
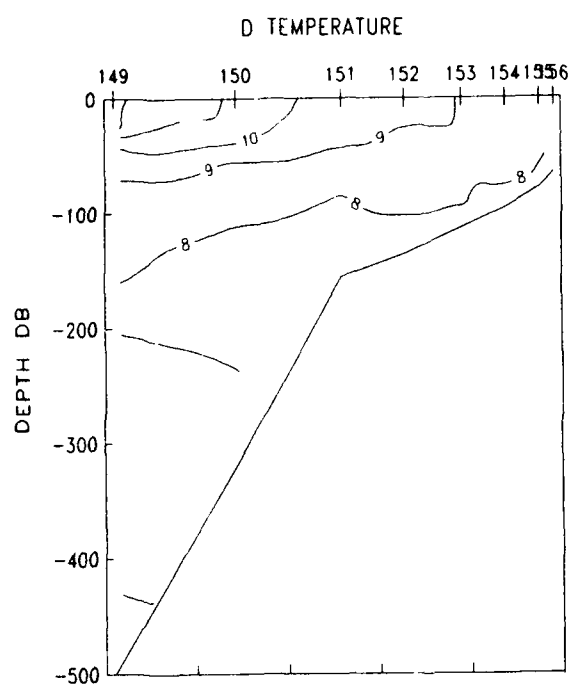


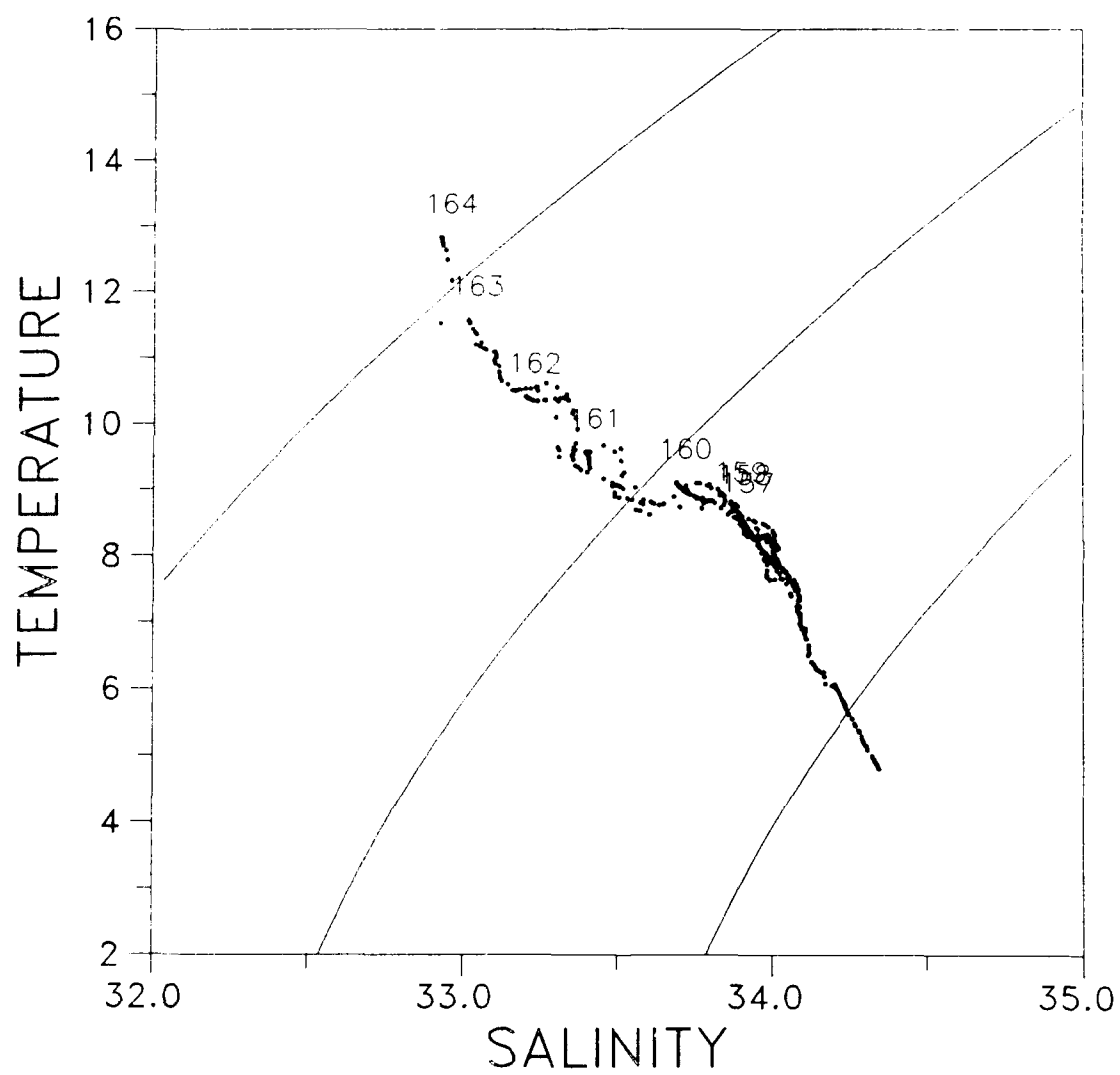


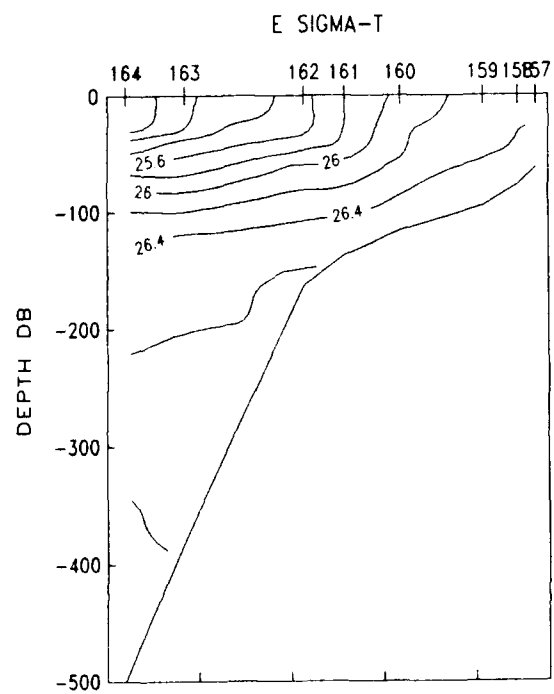
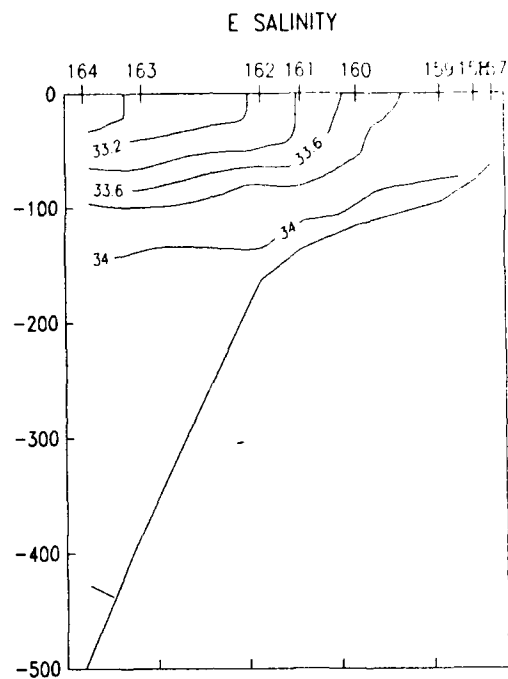
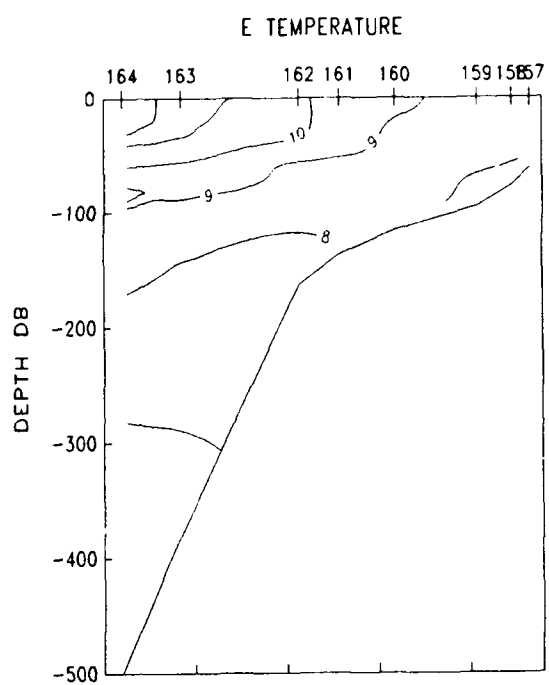


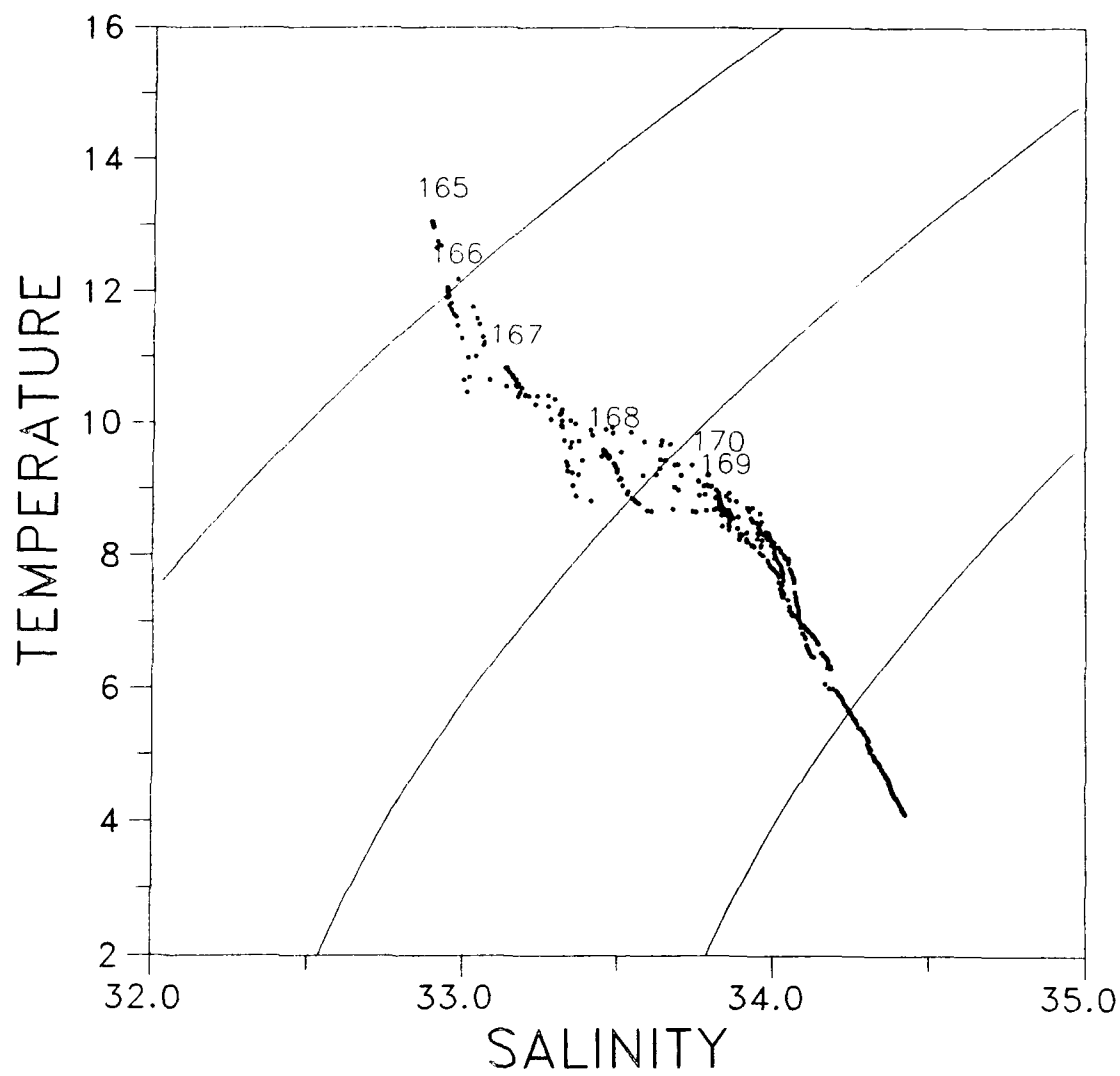




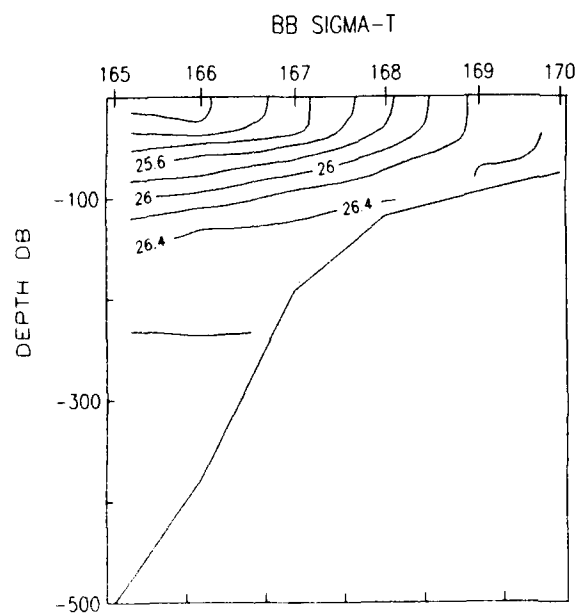
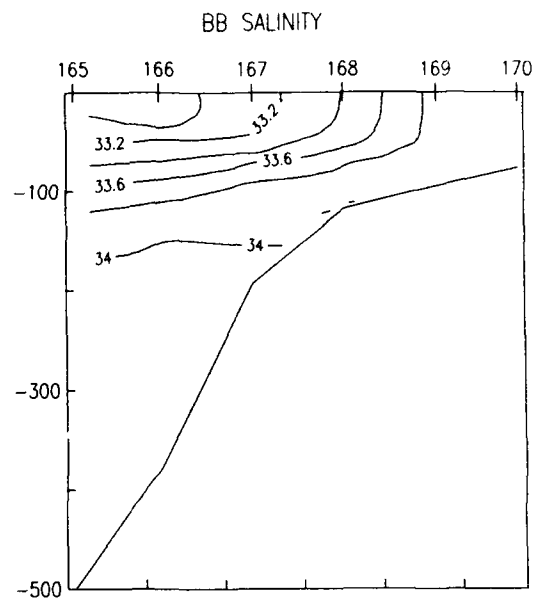
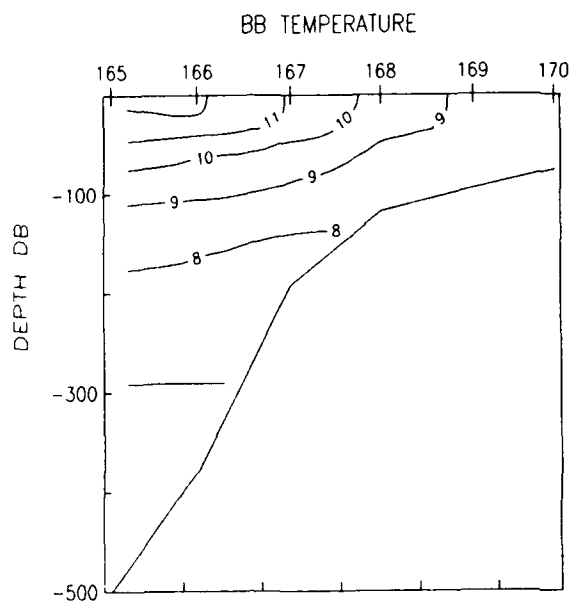




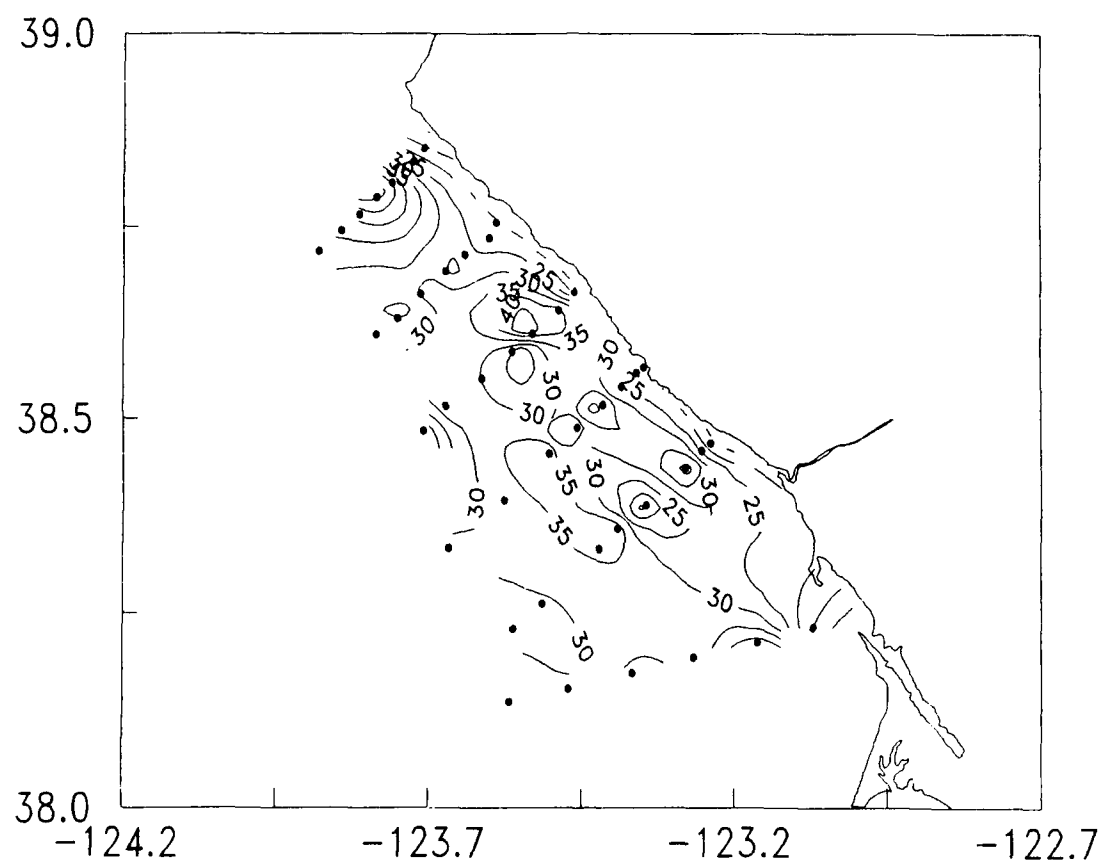




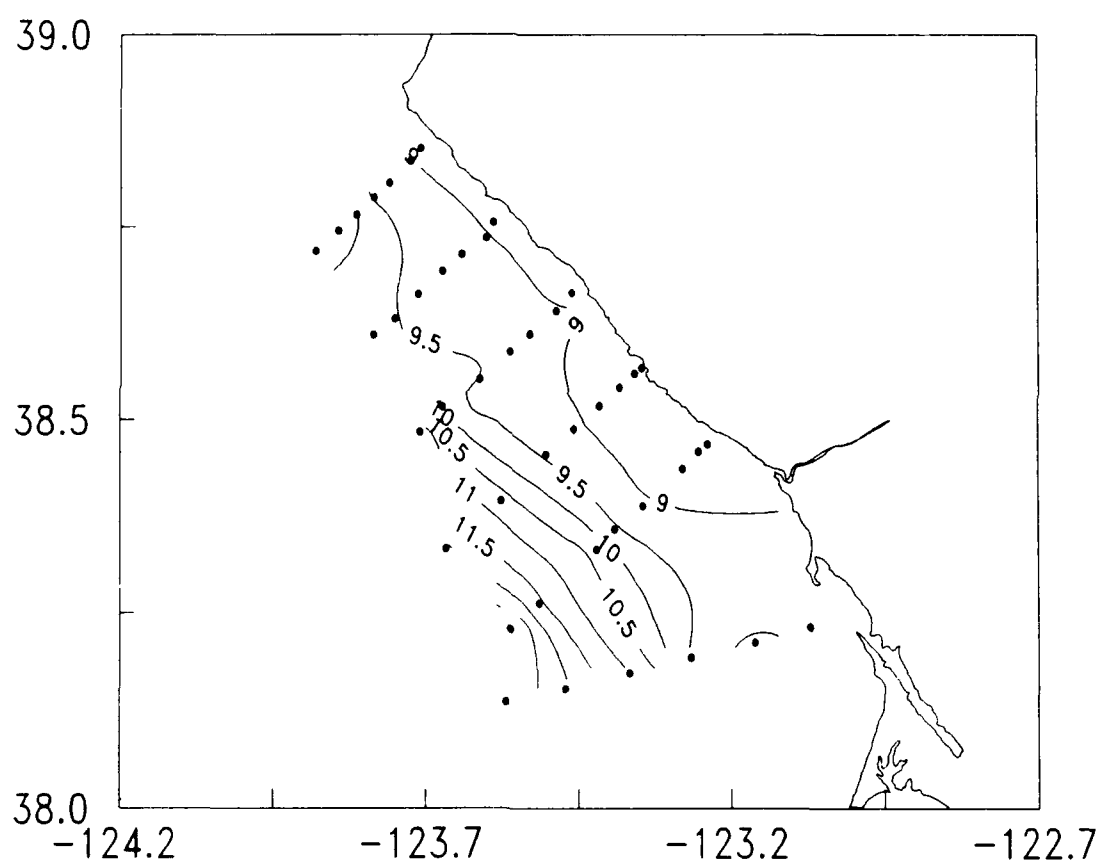




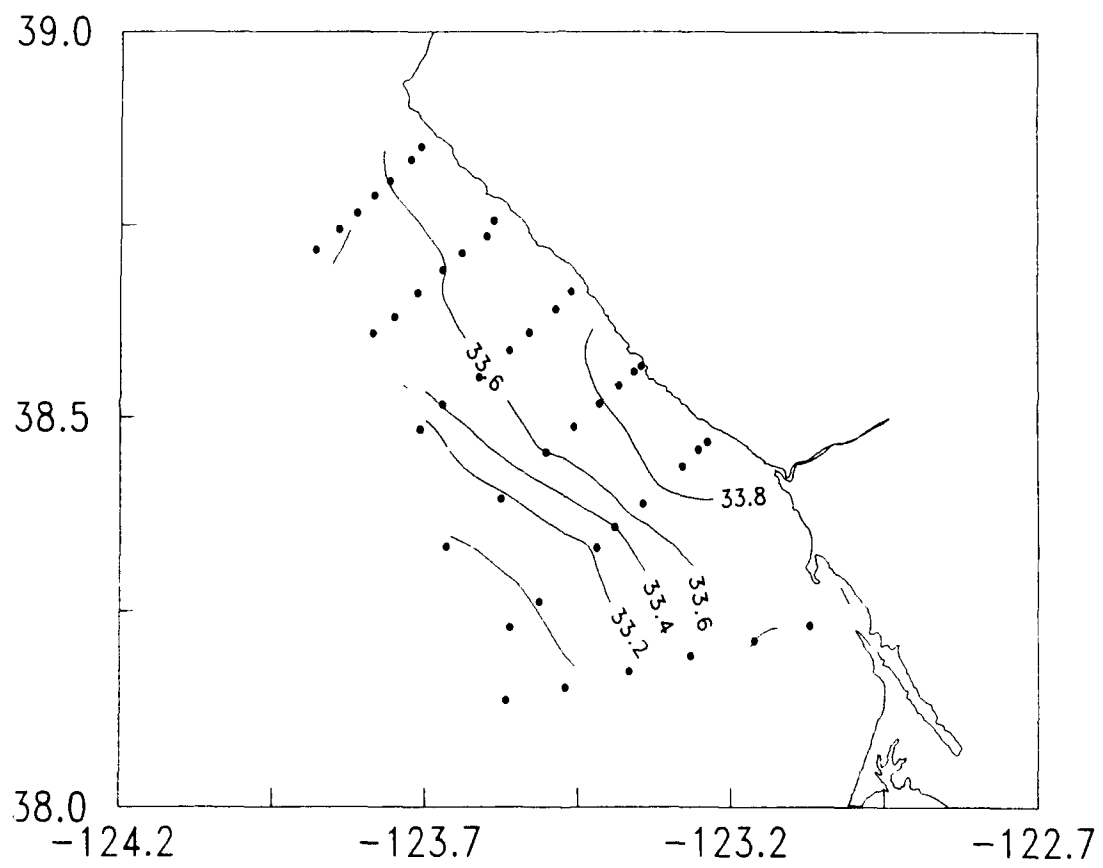
SURFACE MIXED LAYER DEPTH M MAY 11-13 1989



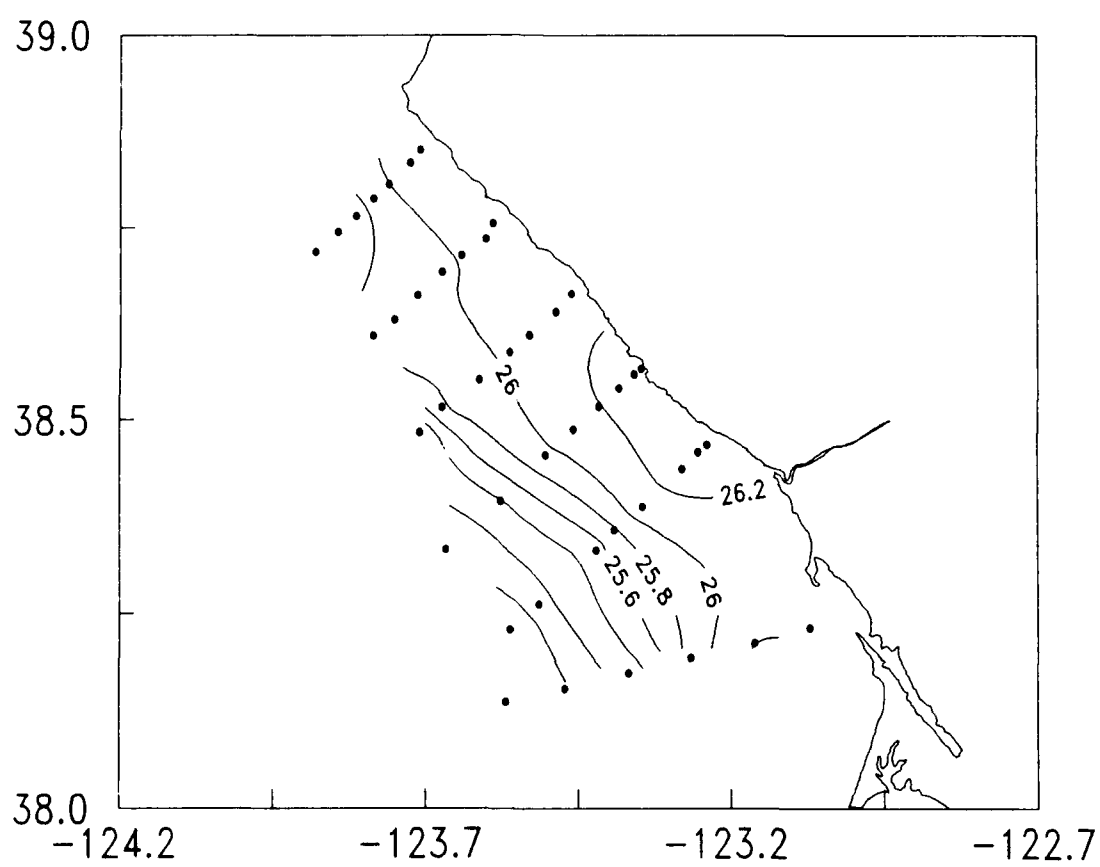
# SURFACE TEMP MAY 11-13 1989



SURFACE SALINITY MAY 11-13 1989



# SURFACE SIGMA-T MAY 11-13 1989

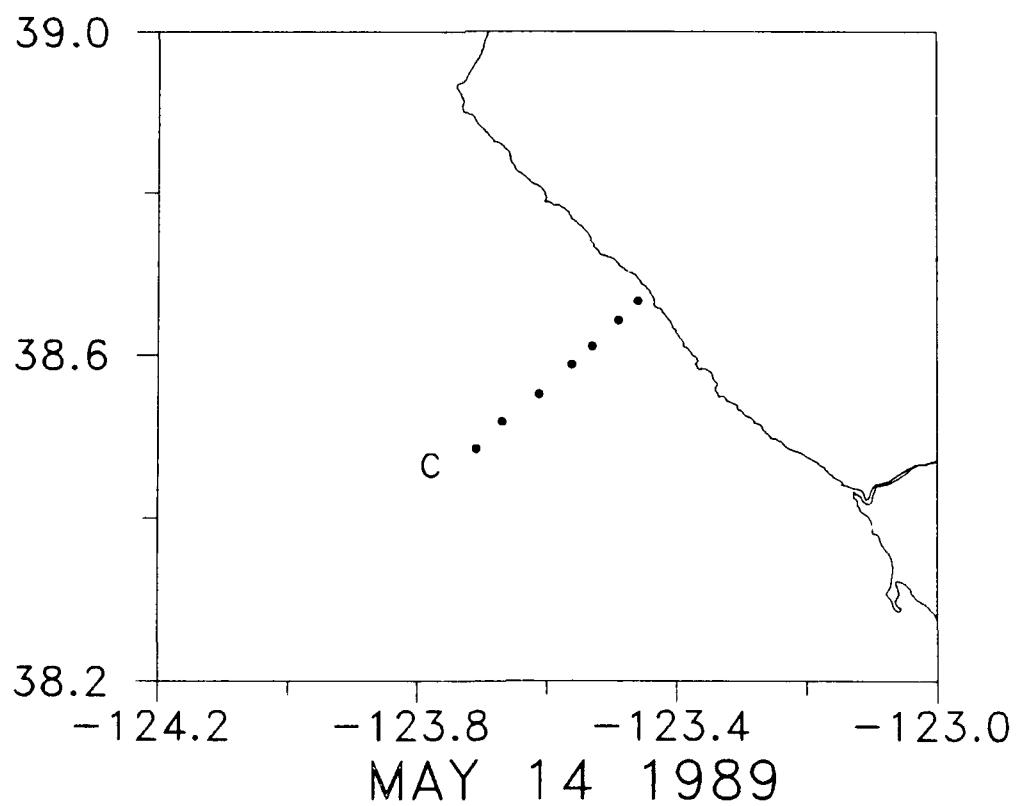
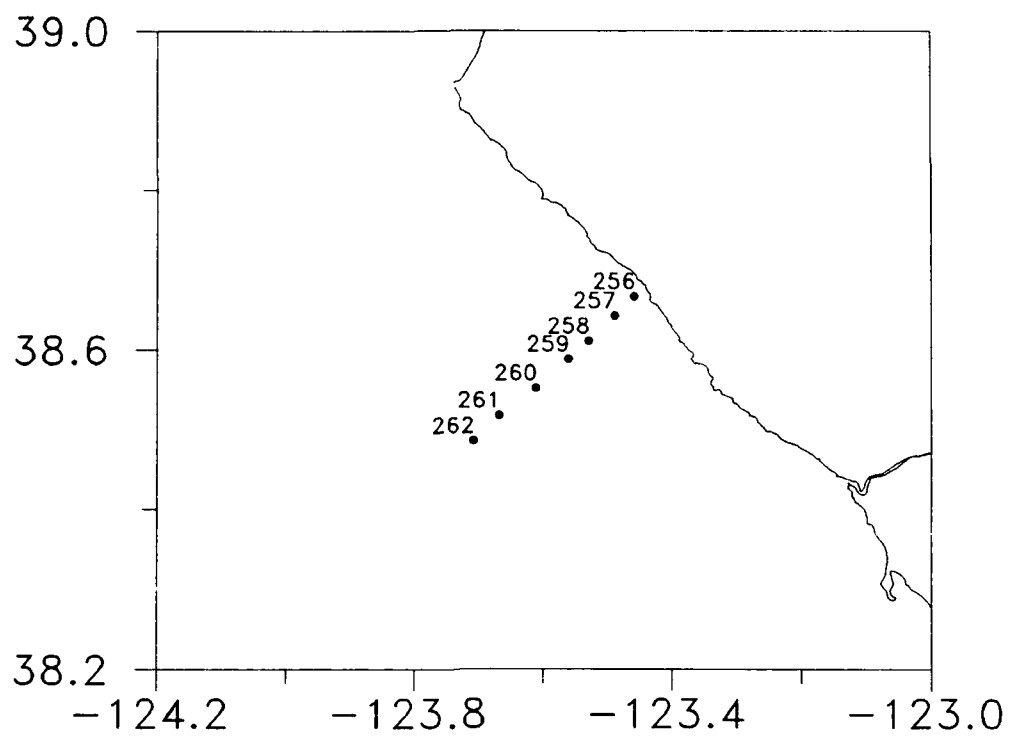


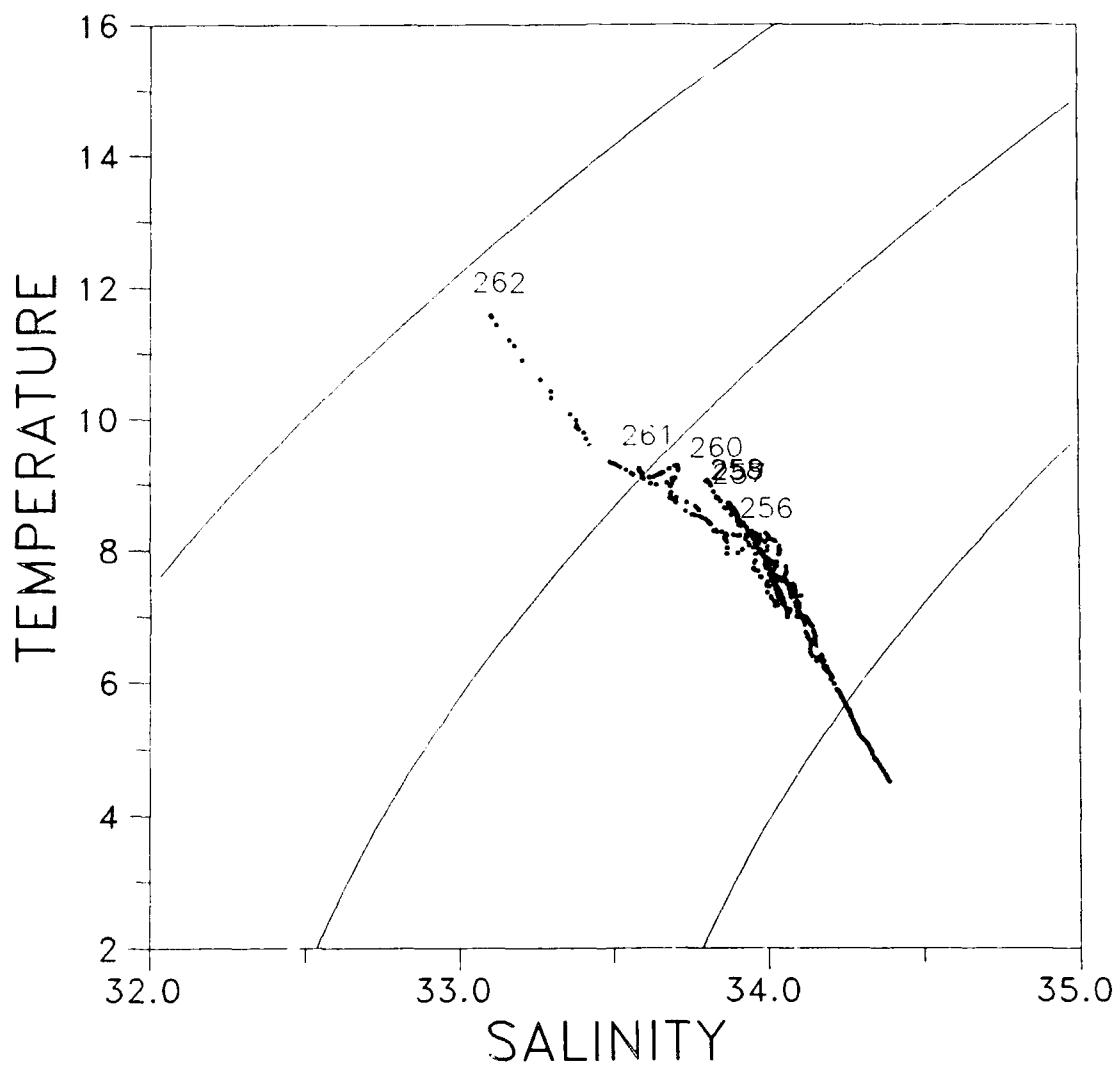


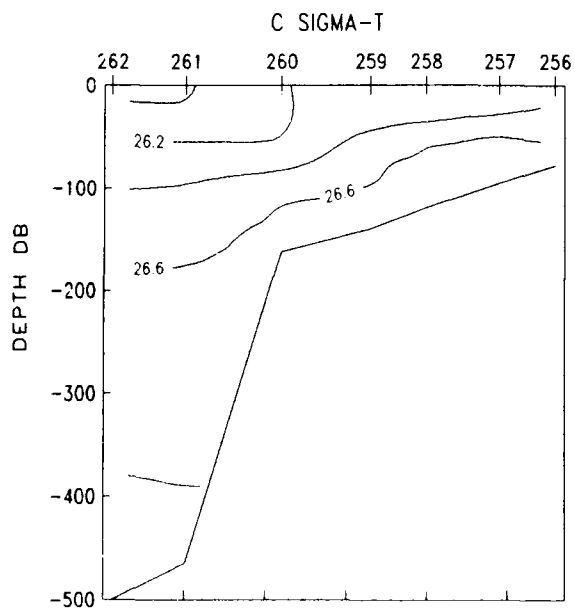
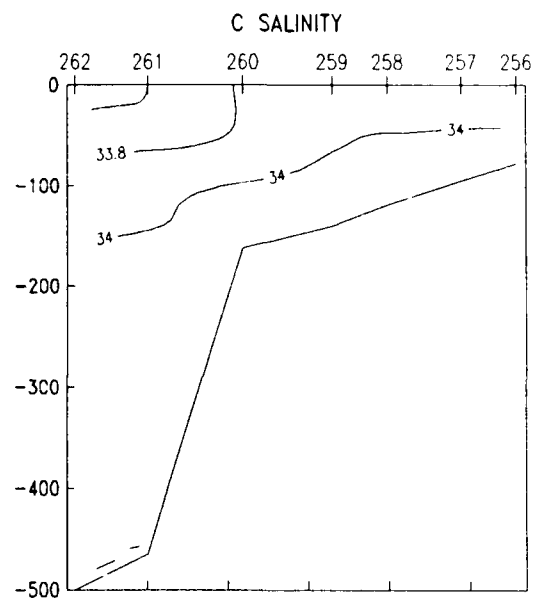
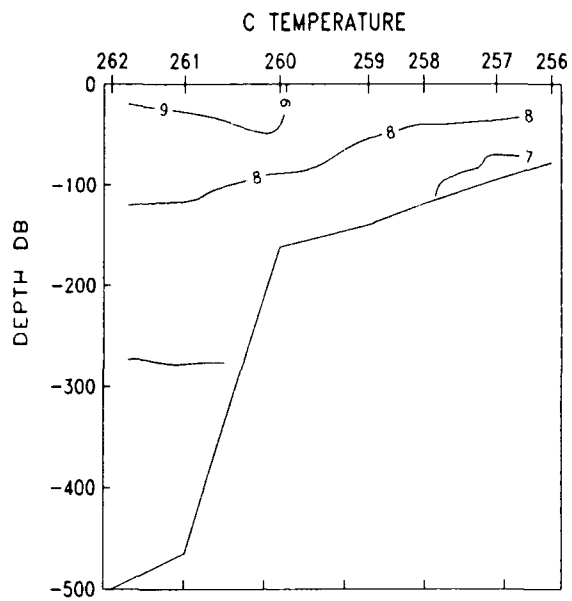
**F. Section C — May 14, 1989**  
**Stations 256 to 262**









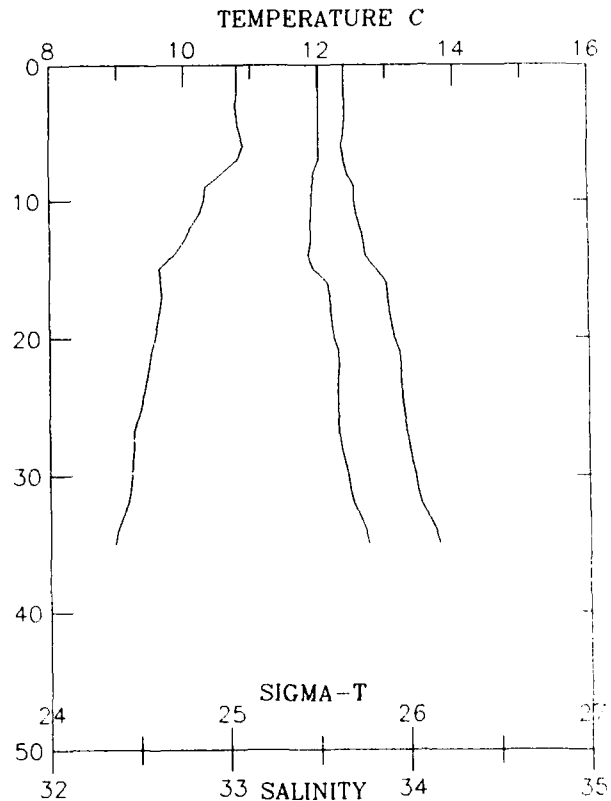
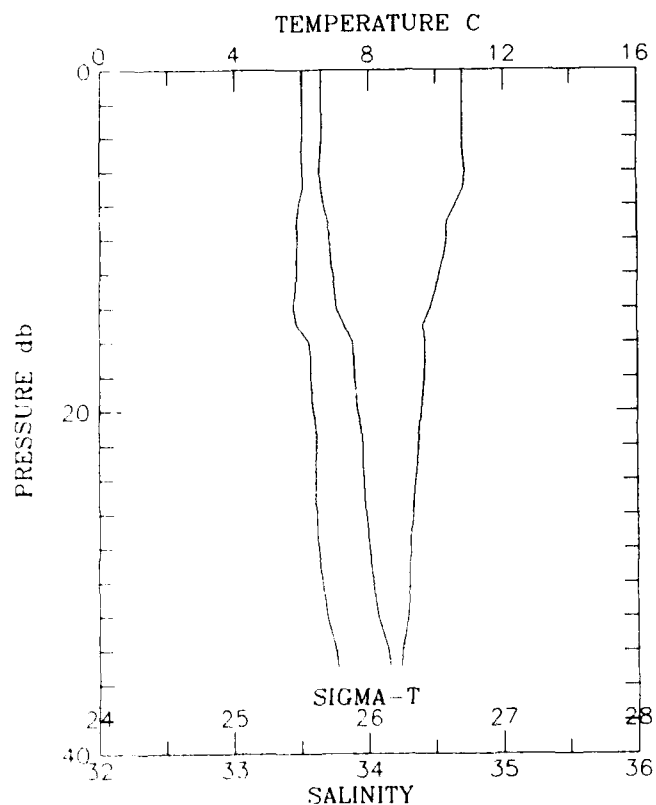




## **8. Station Listings and Profiles**

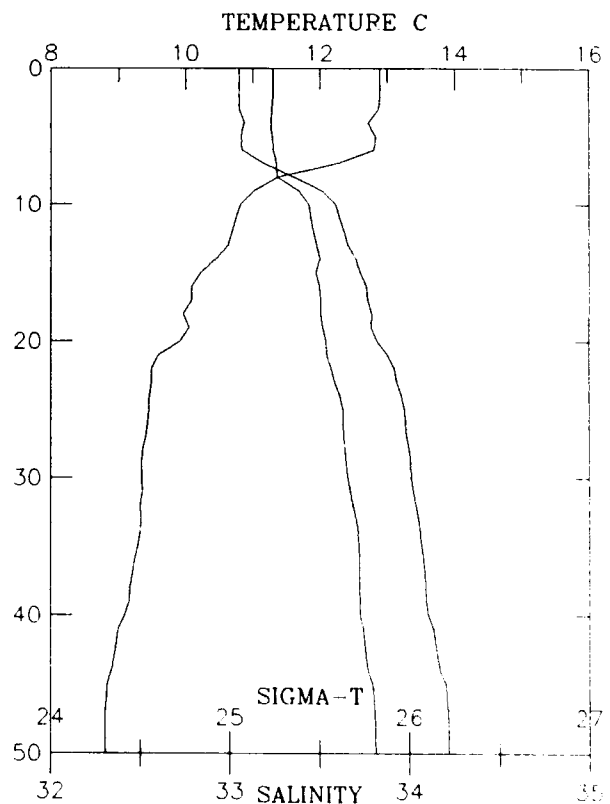
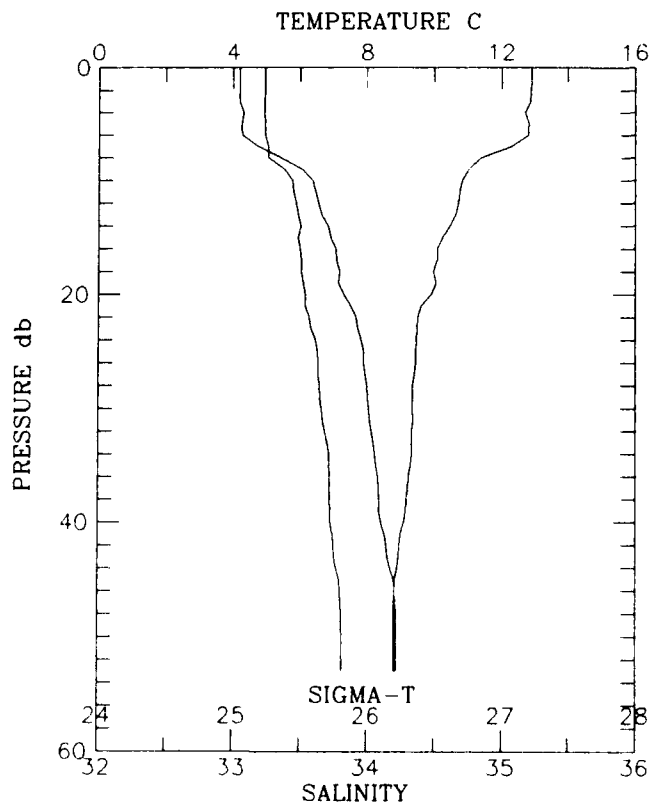
Cruise W8905 Station # 1 Depth m: 39 Time: 1989-05-05 22:12  
 Position: 37 57.20'N 122 49.70'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 10.801	33.505	25.647	0.0000	0.0
2.0	10.801	33.504	25.647	0.0047	0.0
4.0	10.799	33.505	25.648	0.0095	0.0
6.0	10.892	33.510	25.635	0.0142	0.0
8.0	10.583	33.478	25.665	0.0189	0.0
10.0	10.303	33.464	25.702	0.0236	0.0
12.0	10.101	33.459	25.732	0.0282	0.0
14.0	9.847	33.442	25.761	0.0328	0.0
16.0	9.660	33.551	25.877	0.0372	0.0
18.0	9.650	33.569	25.893	0.0415	0.0
20.0	9.570	33.586	25.919	0.0457	0.0
22.0	9.477	33.613	25.956	0.0499	0.0
24.0	9.399	33.606	25.963	0.0540	0.0
26.0	9.309	33.609	25.980	0.0582	0.0
28.0	9.244	33.625	26.003	0.0623	0.0
30.0	9.213	33.661	26.036	0.0663	0.0
32.0	9.162	33.689	26.066	0.0703	0.0
34.0	8.996	33.756	26.145	0.0742	0.0
35.0	8.961	33.769	26.161	0.0760	0.0



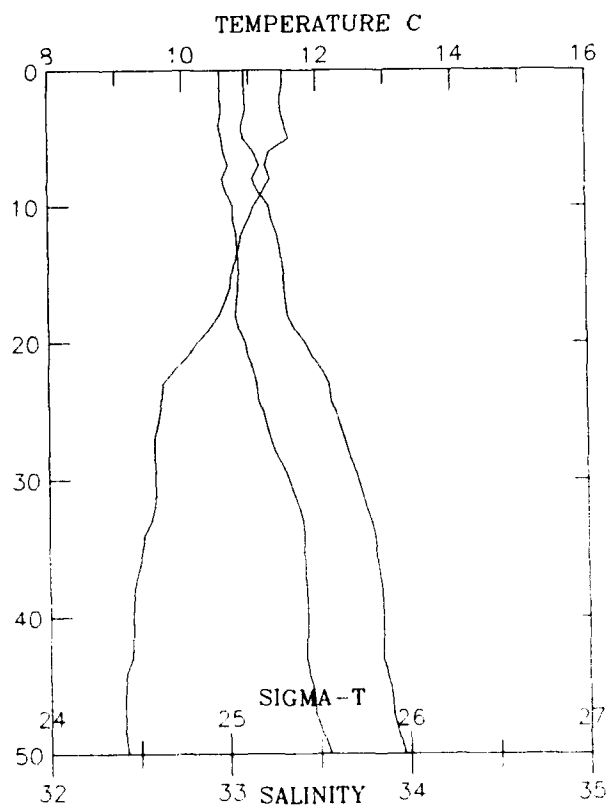
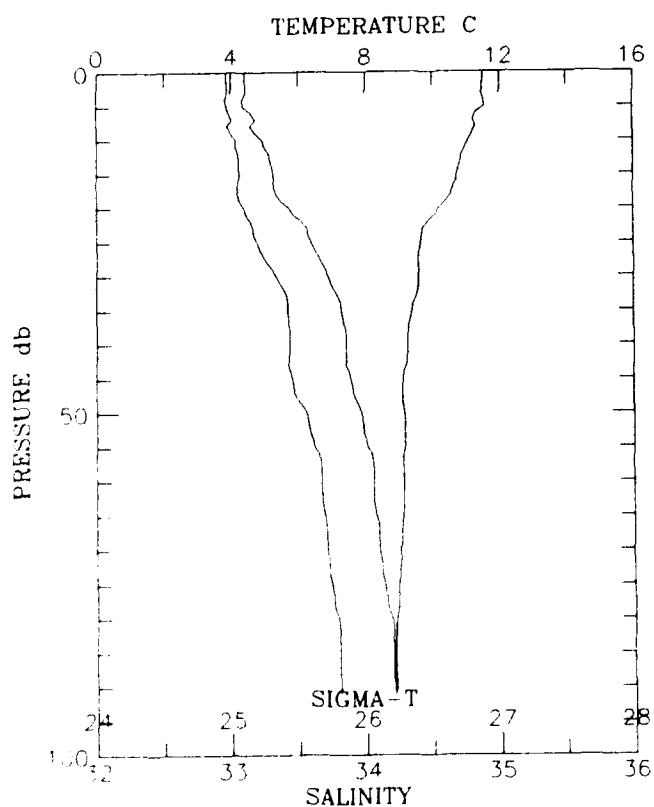
Cruise W8905 Station # 2 Depth m: 58 Time: 1989-05-05 22:56  
 Position: 37 56.52'N 122 56.07'W Depth Deck Offset: -0.60

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	12.899	33.238	25.048	0.0000	0.0
5.0		12.824	33.236	25.062	0.0146	0.0
10.0		10.829	33.442	25.593	0.0282	0.0
15.0		10.239	33.484	25.729	0.0400	0.0
20.0		9.928	33.537	25.822	0.0512	0.0
25.0		9.461	33.631	25.972	0.0618	0.0
30.0		9.350	33.658	26.012	0.0720	0.0
35.0		9.296	33.719	26.068	0.0820	0.0
40.0		9.105	33.728	26.106	0.0918	0.0
45.0		8.841	33.797	26.202	0.1013	0.0
50.0		8.811	33.812	26.218	0.1105	0.0
53.0		8.814	33.813	26.218	0.1160	0.0



Cruise W8905 Station # 3 Depth m: 96 Time: 1989-05-06 00:16  
 Position: 37 54.06'N 123 10.24'W Depth Deck Offset: -0.25

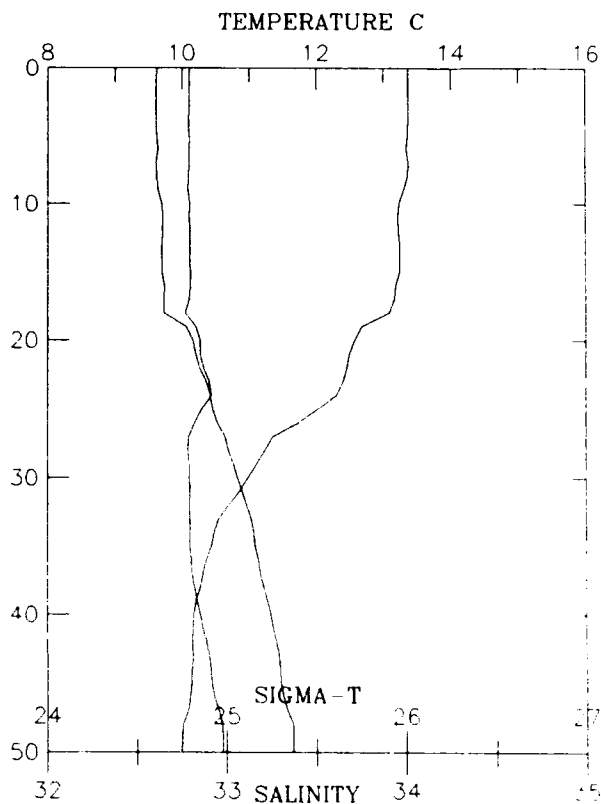
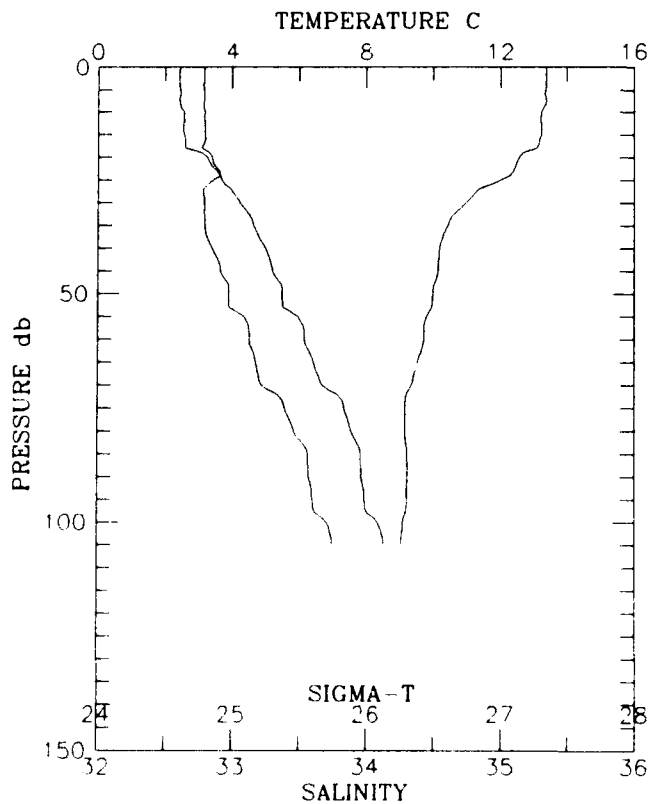
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	11.511	32.965	25.100	0.0000
5.0		11.590	32.973	25.092	0.0144
10.0		11.071	33.035	25.234	0.0286
15.0		10.731	33.063	25.315	0.0422
20.0		10.211	33.095	25.430	0.0554
25.0		9.655	33.193	25.598	0.0679
30.0		9.580	33.336	25.722	0.0797
35.0		9.387	33.422	25.821	0.0909
40.0		9.232	33.430	25.852	0.1019
45.0		9.115	33.455	25.890	0.1127
50.0		9.140	33.556	25.965	0.1233
55.0		9.150	33.615	26.010	0.1336
60.0		9.130	33.671	26.057	0.1436
65.0		9.110	33.693	26.078	0.1535
70.0		9.052	33.717	26.105	0.1633
75.0		8.970	33.746	26.141	0.1729
80.0		8.886	33.791	26.190	0.1824
85.0		8.863	33.803	26.203	0.1917
90.0		8.858	33.806	26.206	0.2010
91.0		8.858	33.806	26.206	0.2028





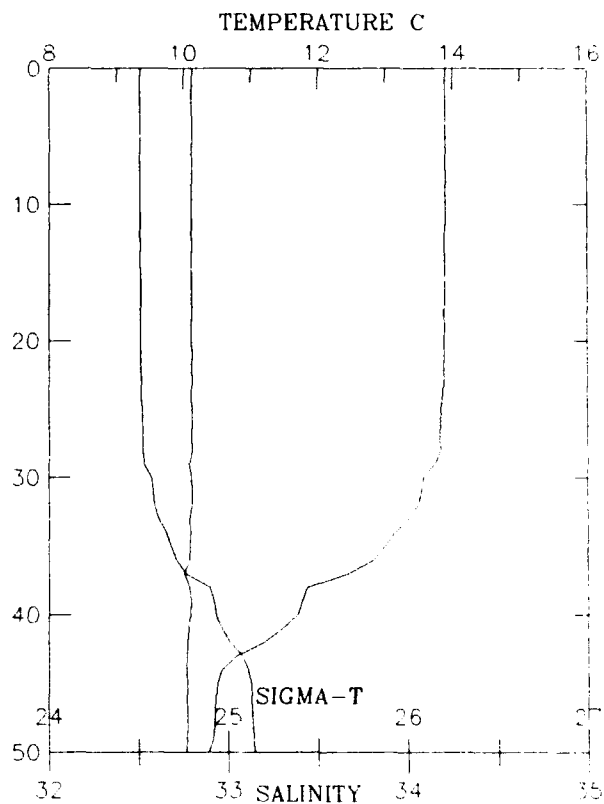
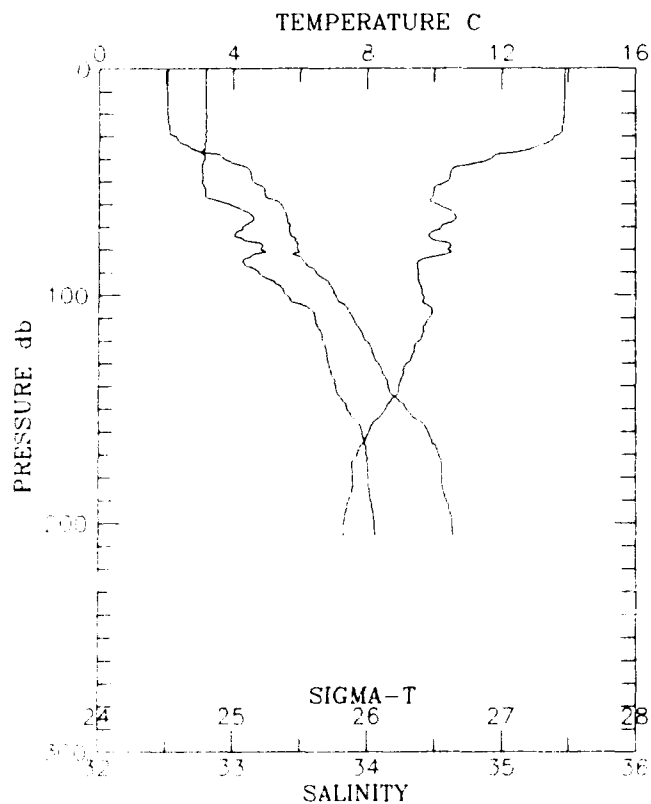
Cruise W8905 Station # 4 Depth m: 109 Time: 1989-05-06 01:09  
 Position: 37 52.80'N 123 17.60'W Depth Deck Offset: -0.20

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	13.371	32.791	24.609	0.0000	0.0
5.0		13.357	32.790	24.611	0.0168	0.0
10.0		13.234	32.796	24.640	0.0335	0.0
15.0		13.239	32.797	24.640	0.0502	0.0
20.0		12.574	32.853	24.813	0.0666	0.0
25.0		12.026	32.860	24.923	0.0821	0.0
30.0		10.978	32.791	25.060	0.0971	0.0
35.0		10.441	32.796	25.158	0.1115	0.0
40.0		10.180	32.854	25.246	0.1255	0.0
45.0		10.144	32.915	25.300	0.1391	0.0
50.0		9.998	32.975	25.371	0.1524	0.0
55.0		9.802	33.086	25.491	0.1655	0.0
60.0		9.720	33.130	25.539	0.1779	0.0
65.0		9.526	33.177	25.607	0.1902	0.0
70.0		9.347	33.217	25.667	0.2022	0.0
75.0		9.156	33.392	25.835	0.2134	0.0
80.0		9.155	33.462	25.890	0.2243	0.0
85.0		9.226	33.565	25.959	0.2349	0.0
90.0		9.234	33.574	25.964	0.2453	0.0
95.0		9.213	33.602	25.990	0.2557	0.0
100.0		9.113	33.707	26.088	0.2658	0.0
105.0		9.040	33.749	26.132	0.2755	0.0



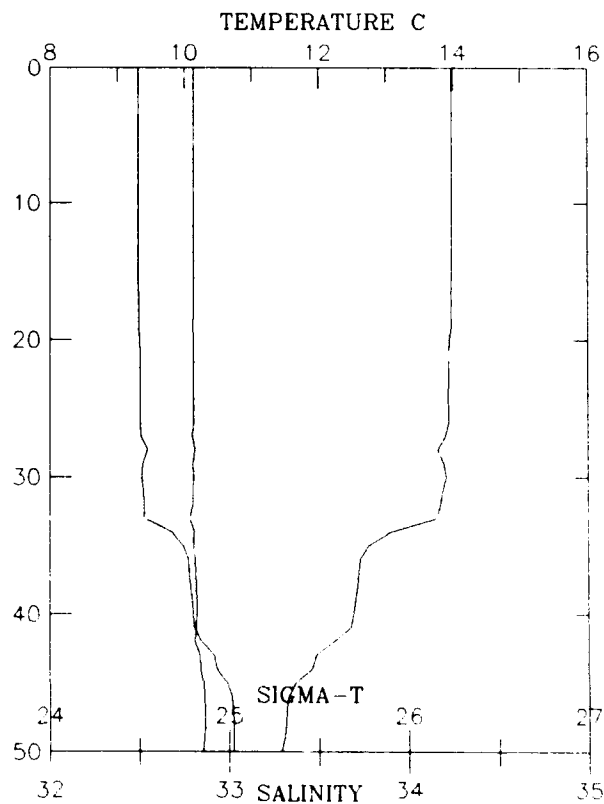
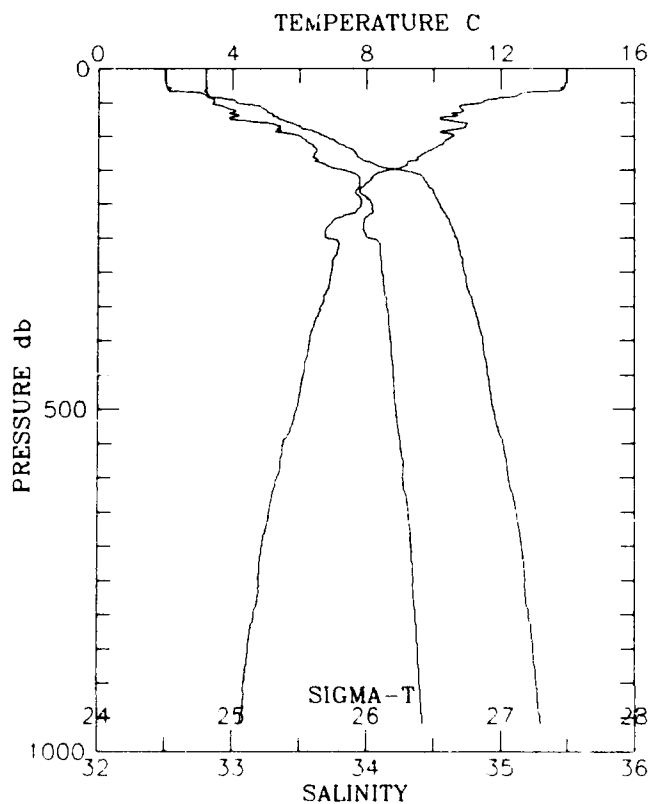
Cruise W8905 Station # 5 Depth m: 220 Time: 1989-05-06 01:58  
 Position: 37 51.90'N 123 24.70'W Depth Deck Offset: -0.20

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	13.894	32.797	24.507	0.0000	0.0
10.0		13.892	32.796	24.507	0.0345	0.0
20.0		13.875	32.796	24.510	0.0691	0.0
30.0		13.563	32.796	24.574	0.1035	0.0
40.0		11.688	32.787	24.929	0.1361	0.0
50.0		10.376	32.766	25.145	0.1652	0.0
60.0		10.056	32.968	25.356	0.1928	0.0
80.0		10.406	33.205	25.482	0.2447	0.0
100.0		9.622	33.393	25.760	0.2930	0.0
150.0		8.546	33.850	26.289	0.3944	0.0
200.0		7.296	34.052	26.632	0.4729	0.0
206.0		7.268	34.057	26.639	0.4816	0.0



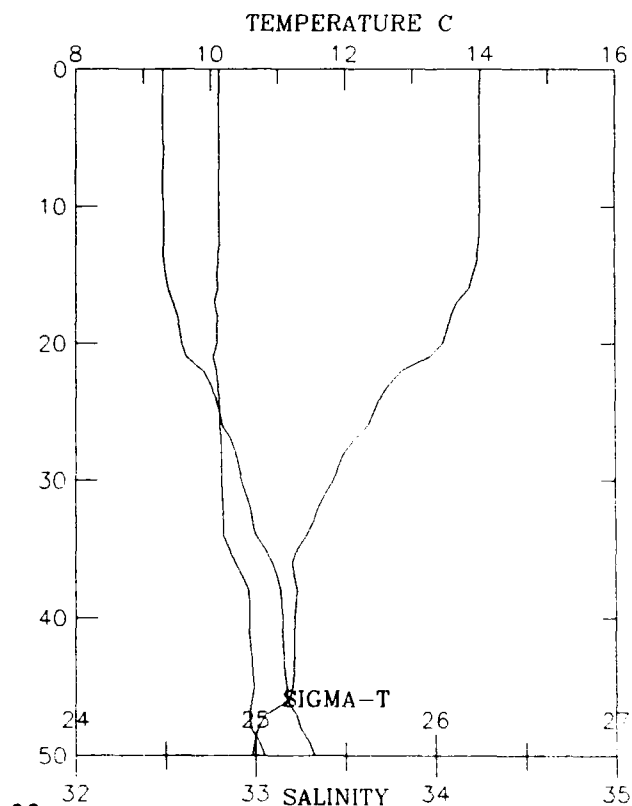
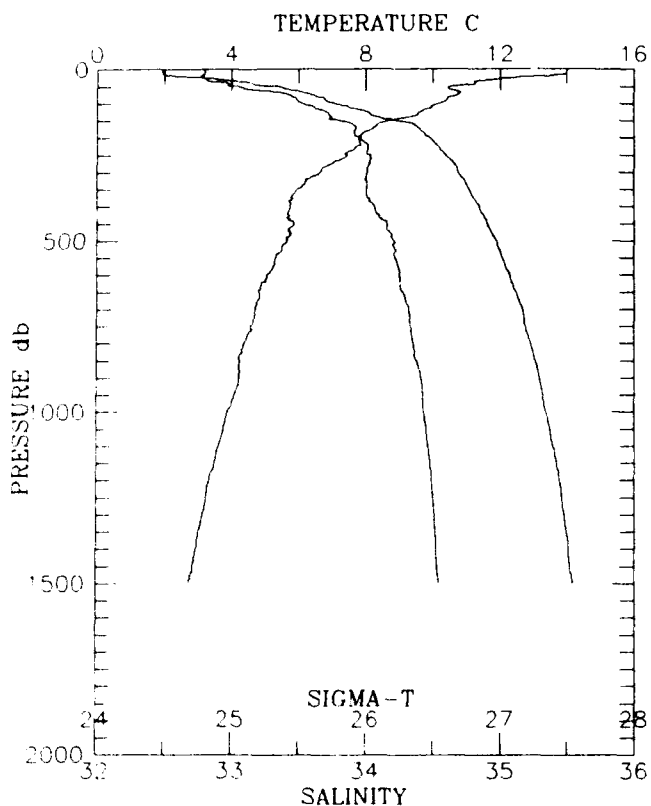
Cruise W8905 Station # 6 Depth m: 949 Time: 1989-05-06 02:36  
 Position: 37 51.40'N 123 27.20'W Depth Deck Offset: -0.20

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	13.982	32.802	24.493	0.0000	0.0
10.0		13.981	32.802	24.493	0.0347	0.0
20.0		13.943	32.801	24.500	0.0693	0.0
30.0		13.895	32.801	24.510	0.1039	0.0
40.0		12.519	32.821	24.799	0.1369	0.0
50.0		11.442	32.853	25.025	0.1673	0.0
60.0		10.829	32.982	25.235	0.1957	0.0
80.0		10.871	33.235	25.425	0.2495	0.0
100.0		10.586	33.500	25.681	0.2989	0.0
150.0		8.660	33.831	26.256	0.4057	0.0
200.0		7.860	34.039	26.540	0.4871	0.0
250.0		6.796	34.013	26.670	0.5616	0.0
300.0		6.945	34.115	26.729	0.6321	0.0
400.0		6.303	34.179	26.865	0.7648	0.0
500.0		5.921	34.220	26.946	0.8885	0.0
600.0		5.338	34.272	27.059	1.0029	0.0
700.0		4.900	34.332	27.157	1.1082	0.0
800.0		4.652	34.368	27.214	1.2077	0.0
900.0		4.367	34.397	27.268	1.3021	0.0
961.0		4.188	34.421	27.306	1.3578	0.0



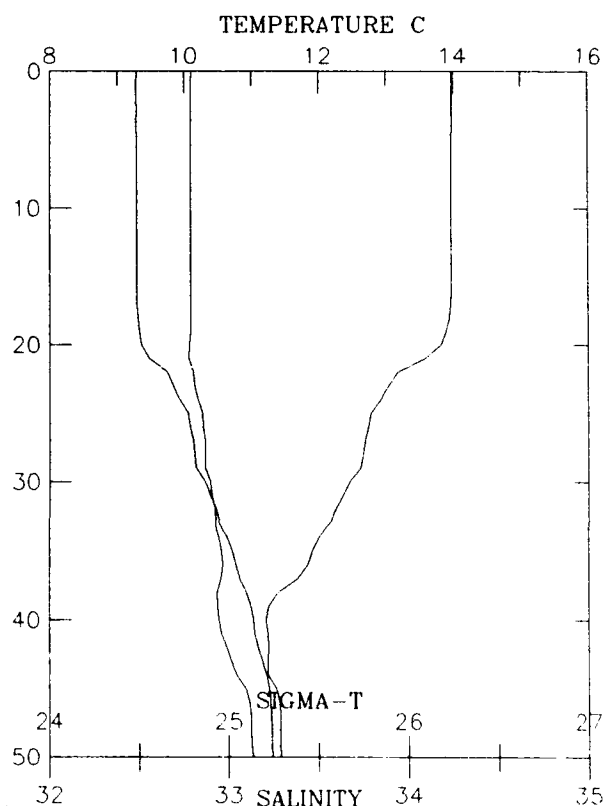
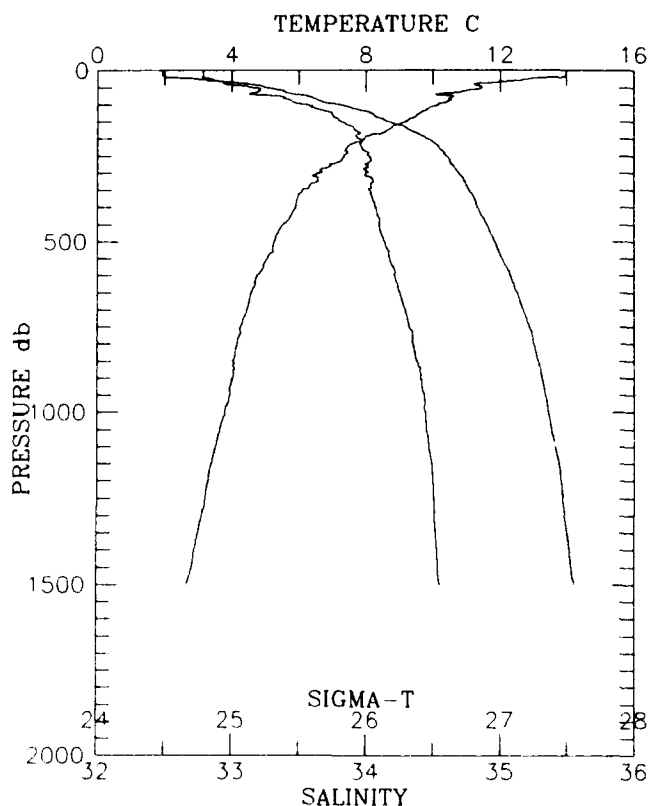
Cruise W8905 Station # 7 Depth m: 1821 Time: 1989-05-06 03:44  
 Position: 37 50.90'N 123 31.40'W Depth Deck Offset: -0.20

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	14.003	32.800	24.487	0.0000
10.0		13.995	32.799	24.488	0.0347
20.0		13.450	32.789	24.591	0.0691
30.0		11.826	32.812	24.923	0.1010
40.0		11.241	32.966	25.150	0.1304
50.0		10.616	33.048	25.324	0.1585
60.0		10.527	33.171	25.435	0.1847
80.0		10.563	33.452	25.648	0.2341
100.0		10.187	33.528	25.771	0.2807
150.0		8.715	33.811	26.232	0.3839
200.0		7.852	33.952	26.473	0.4684
250.0		7.438	34.032	26.596	0.5465
300.0		6.644	34.014	26.690	0.6194
400.0		5.741	34.065	26.846	0.7545
500.0		5.642	34.208	26.971	0.8779
600.0		5.058	34.250	27.074	0.9912
700.0		4.712	34.321	27.170	1.0957
800.0		4.384	34.356	27.234	1.1938
900.0		4.222	34.410	27.294	1.2858
1000.0		3.889	34.433	27.347	1.3734
1100.0		3.635	34.464	27.397	1.4561
1200.0		3.368	34.492	27.446	1.5342
1300.0		3.159	34.512	27.480	1.6087
1400.0		2.966	34.526	27.510	1.6803
1500.0		2.751	34.545	27.544	1.7492
1501.0		2.751	34.545	27.544	1.7499



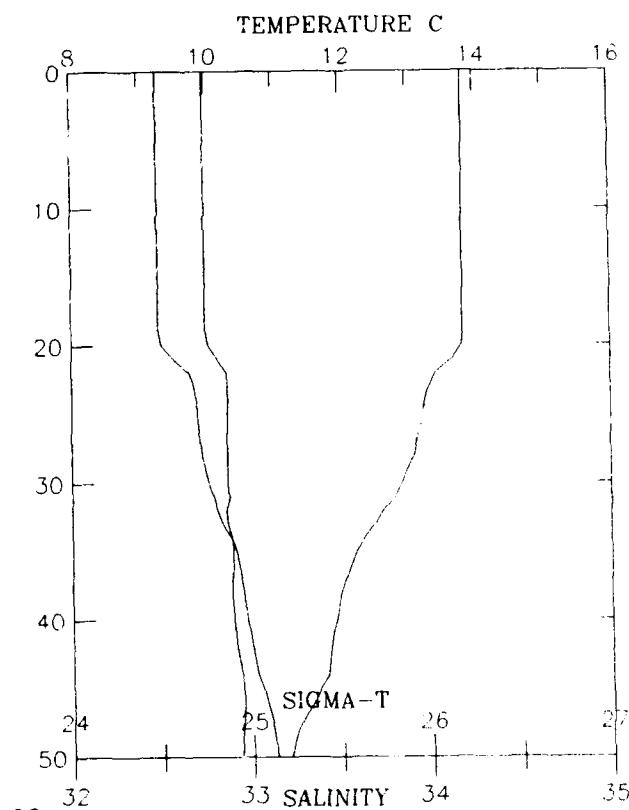
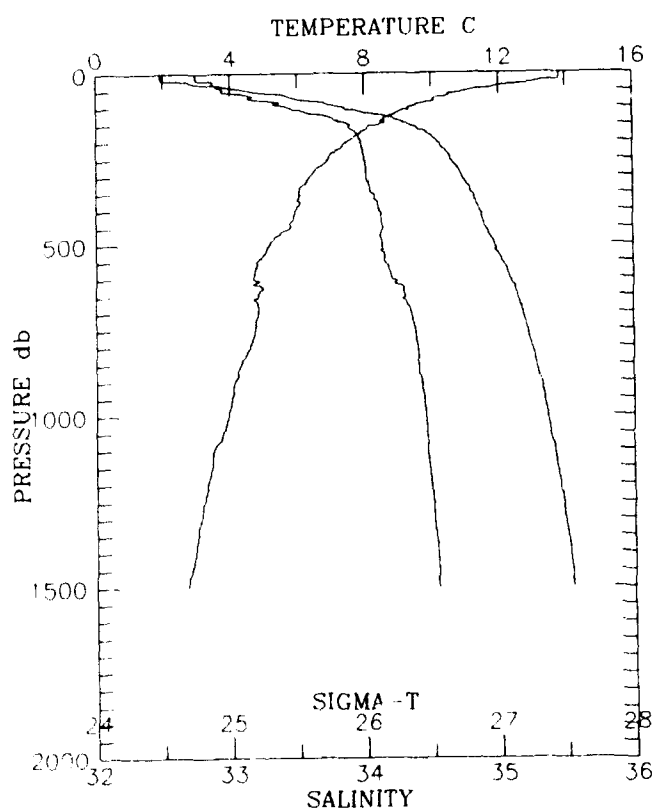
Cruise W8905 Station # 8 Depth m: 2749 Time: 1989-05-06 05:17  
 Position: 37 49.60'N 123 36.90'W Depth Deck Offset: -0.20

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	13.981	32.790	24.484	0.0000	0.0
10.0		13.974	32.788	24.484	0.0347	0.0
20.0		13.818	32.782	24.511	0.0695	0.0
30.0		12.460	32.897	24.870	0.1019	0.0
40.0		11.218	32.946	25.138	0.1317	0.0
50.0		11.440	33.133	25.244	0.1597	0.0
60.0		10.967	33.205	25.385	0.1865	0.0
80.0		10.539	33.385	25.600	0.2370	0.0
100.0		10.143	33.558	25.802	0.2841	0.0
150.0		9.168	33.814	26.163	0.3866	0.0
200.0		7.955	33.940	26.448	0.4743	0.0
250.0		7.336	34.010	26.593	0.5522	0.0
300.0		6.582	34.000	26.687	0.6255	0.0
400.0		5.896	34.070	26.831	0.7607	0.0
500.0		5.256	34.137	26.962	0.8846	0.0
600.0		4.759	34.207	27.074	0.9978	0.0
700.0		4.452	34.293	27.176	1.1012	0.0
800.0		4.173	34.351	27.252	1.1965	0.0
900.0		4.030	34.409	27.313	1.2862	0.0
1000.0		3.807	34.443	27.363	1.3714	0.0
1100.0		3.533	34.469	27.411	1.4525	0.0
1200.0		3.311	34.499	27.456	1.5289	0.0
1300.0		3.132	34.513	27.484	1.6027	0.0
1400.0		2.904	34.531	27.519	1.6736	0.0
1500.0		2.685	34.549	27.553	1.7416	0.0
1501.0		2.683	34.550	27.554	1.7423	0.0



Cruise W8905 Station # 9 Depth m: 2581 Time: 1989-05-06 08:04  
 Position: 38 6.30'N 123 44.10'W Depth Deck Offset: -0.20

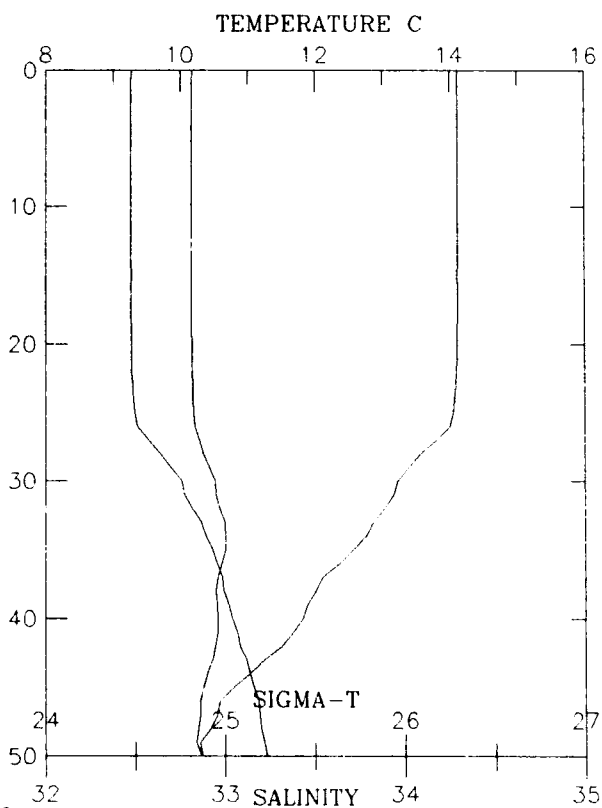
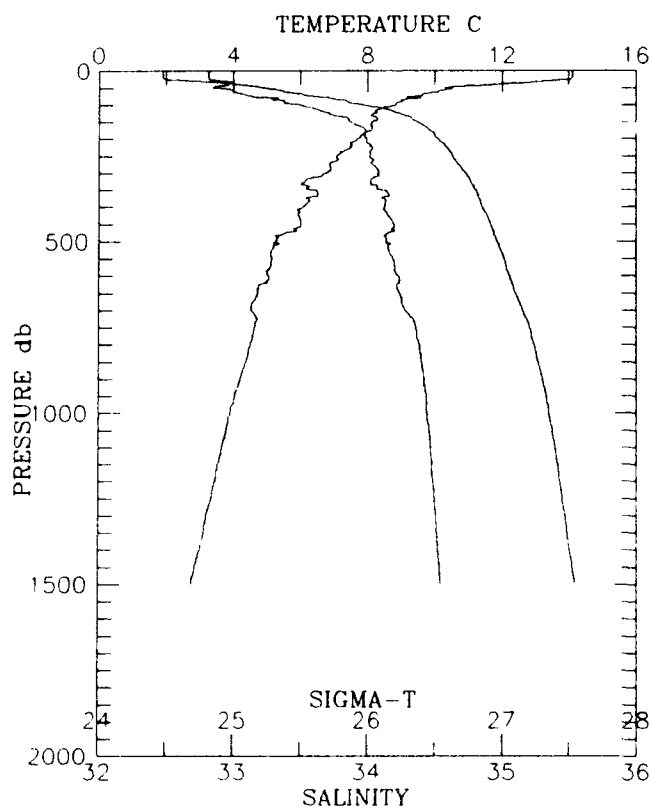
PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	13.826	32.745	24.481	0.0000	0.0
10.0		13.818	32.746	24.484	0.0348	0.0
20.0		13.800	32.761	24.499	0.0695	0.0
30.0		12.906	32.869	24.761	0.1024	0.0
40.0		11.917	32.896	24.971	0.1334	0.0
50.0		11.216	32.935	25.130	0.1628	0.0
60.0		10.651	33.090	25.350	0.1907	0.0
80.0		10.064	33.274	25.594	0.2418	0.0
100.0		9.294	33.440	25.850	0.2881	0.0
150.0		8.461	33.893	26.335	0.3855	0.0
200.0		7.478	33.971	26.542	0.4670	0.0
250.0		6.934	34.000	26.641	0.5420	0.0
300.0		6.371	34.009	26.722	0.6132	0.0
400.0		5.913	34.104	26.856	0.7459	0.0
500.0		5.170	34.129	26.965	0.8689	0.0
600.0		4.653	34.197	27.078	0.9814	0.0
700.0		4.827	34.346	27.177	1.0845	0.0
800.0		4.566	34.387	27.238	1.1815	0.0
900.0		4.108	34.417	27.312	1.2726	0.0
1000.0		3.917	34.447	27.355	1.3586	0.0
1100.0		3.475	34.459	27.409	1.4405	0.0
1200.0		3.288	34.486	27.448	1.5179	0.0
1300.0		3.094	34.509	27.484	1.5918	0.0
1400.0		2.905	34.529	27.517	1.6625	0.0
1500.0		2.702	34.542	27.546	1.7307	0.0
1502.0		2.700	34.542	27.546	1.7320	0.0



Cruise W8905 Station # 10 Depth m: 1885 Time: 1989-05-06 09:31  
 Position: 38 7.40'N 123 38.50'W Depth Deck Offset: -0.10

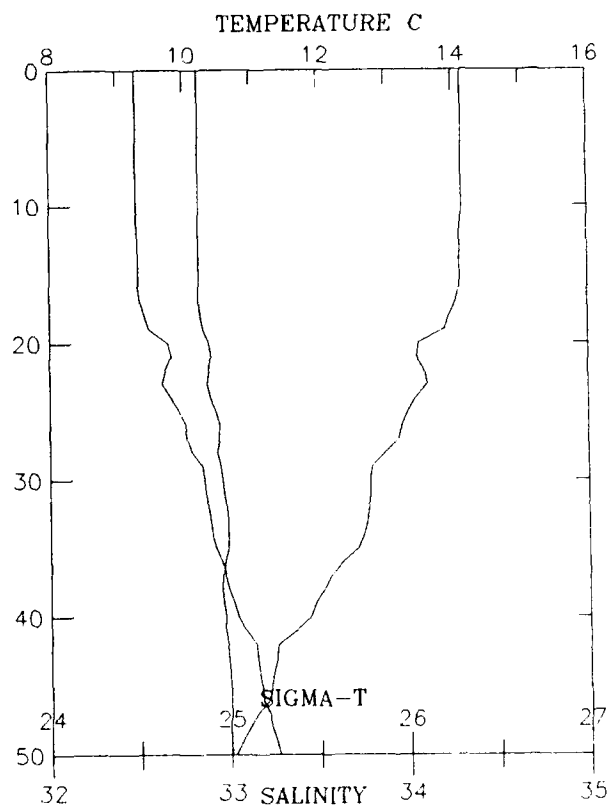
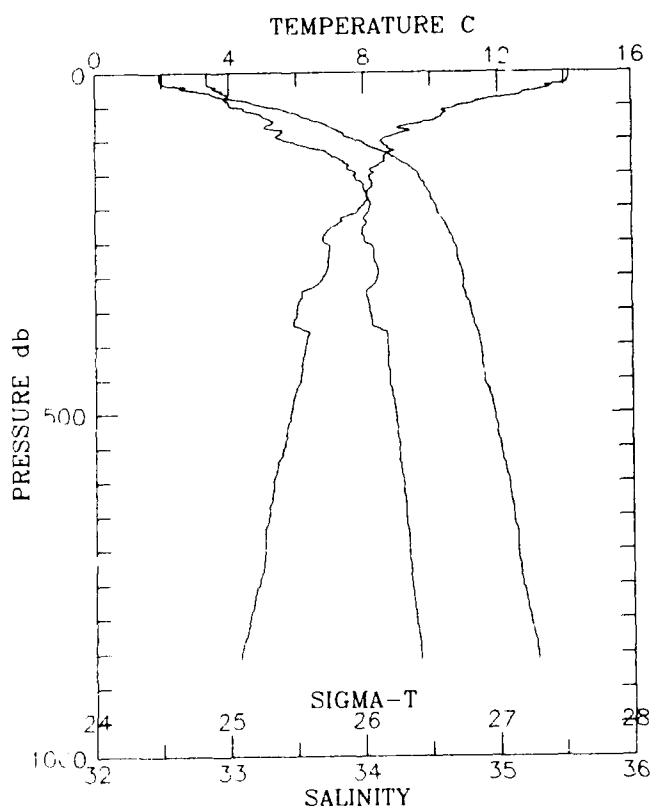
PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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0.0	E	14.113	32.816	24.477	0.0000	0.0
10.0		14.113	32.814	24.475	0.0348	0.0
20.0		14.106	32.816	24.478	0.0697	0.0
30.0		13.226	32.945	24.757	0.1039	0.0
40.0		11.817	32.959	25.039	0.1346	0.0
50.0		10.328	32.869	25.233	0.1631	0.0
60.0		10.093	32.999	25.374	0.1900	0.0
80.0		9.596	33.336	25.720	0.2398	0.0
100.0		8.839	33.500	25.969	0.2837	0.0
150.0		8.101	33.867	26.369	0.3761	0.0
200.0		7.687	33.994	26.530	0.4575	0.0
250.0		7.076	34.013	26.631	0.5332	0.0
300.0		6.794	34.087	26.728	0.6049	0.0
400.0		6.080	34.128	26.854	0.7374	0.0
500.0		5.273	34.140	26.962	0.8601	0.0
600.0		5.041	34.226	27.057	0.9739	0.0
700.0		4.528	34.275	27.154	1.0796	0.0
800.0		4.518	34.385	27.242	1.1771	0.0
900.0		4.212	34.422	27.305	1.2687	0.0
1000.0		3.919	34.441	27.350	1.3551	0.0
1100.0		3.675	34.469	27.397	1.4376	0.0
1200.0		3.463	34.485	27.431	1.5167	0.0
1300.0		3.214	34.508	27.472	1.5926	0.0
1400.0		3.014	34.524	27.504	1.6653	0.0
1500.0		2.764	34.544	27.542	1.7342	0.0
1501.0		2.764	34.543	27.541	1.7349	0.0



Cruise W8905 Station # 11 Depth m: 945 Time: 1989-05-06 10:56  
 Position: 38 8.20'N 123 34.00'W Depth Deck Offset: -0.0'

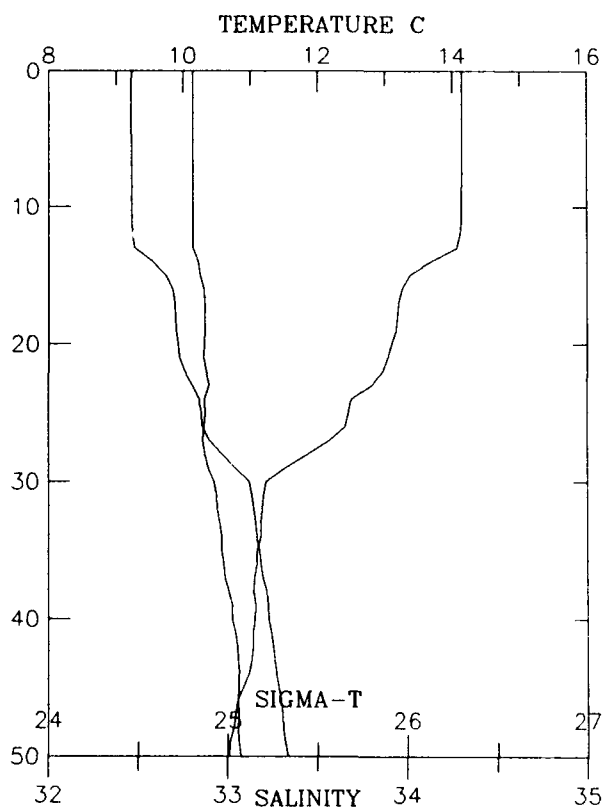
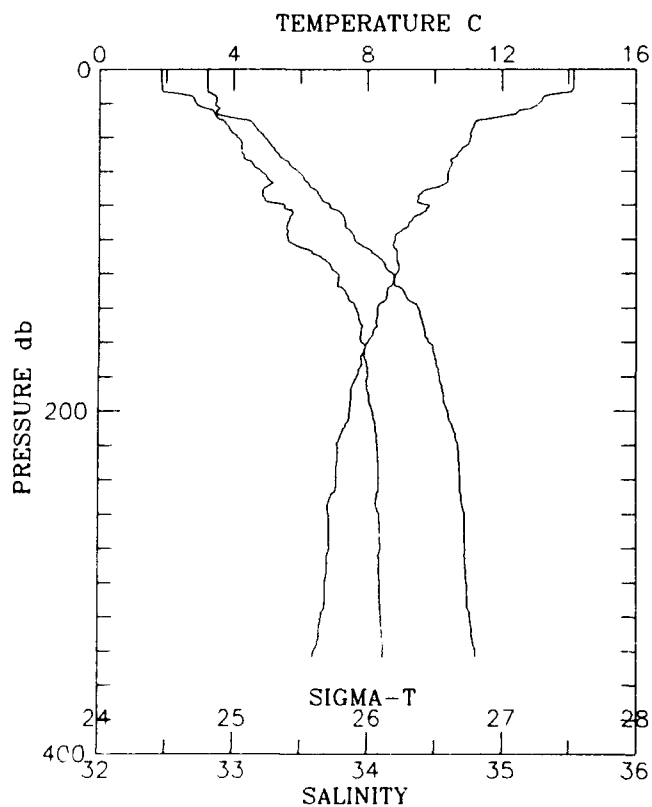
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 14.139	32.836	24.487	0.0000	0.0
10.0	14.137	32.836	24.487	0.0347	0.0
20.0	13.490	32.888	24.660	0.0692	0.0
30.0	12.759	32.962	24.862	0.1017	0.0
40.0	11.850	32.974	25.044	0.1322	0.0
50.0	10.733	33.001	25.267	0.1605	0.0
60.0	10.448	33.190	25.463	0.1867	0.0
80.0	9.117	33.261	25.738	0.2351	0.0
100.0	8.533	33.410	25.946	0.2792	0.0
150.0	8.203	33.930	26.404	0.3720	0.0
200.0	7.871	34.039	26.539	0.4528	0.0
250.0	6.791	34.005	26.663	0.5274	0.0
300.0	6.785	34.096	26.736	0.5977	0.0
400.0	6.248	34.175	26.869	0.7302	0.0
500.0	5.807	34.232	26.970	0.8533	0.0
600.0	5.288	34.288	27.077	0.9669	0.0
700.0	5.028	34.329	27.140	1.0726	0.0
800.0	4.578	34.380	27.231	1.1725	0.0
860.0	4.297	34.412	27.287	1.2279	0.0





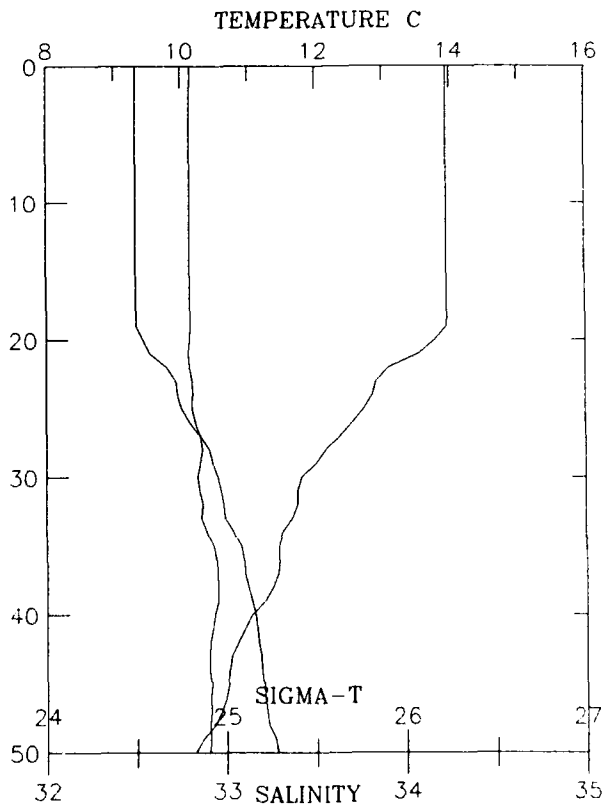
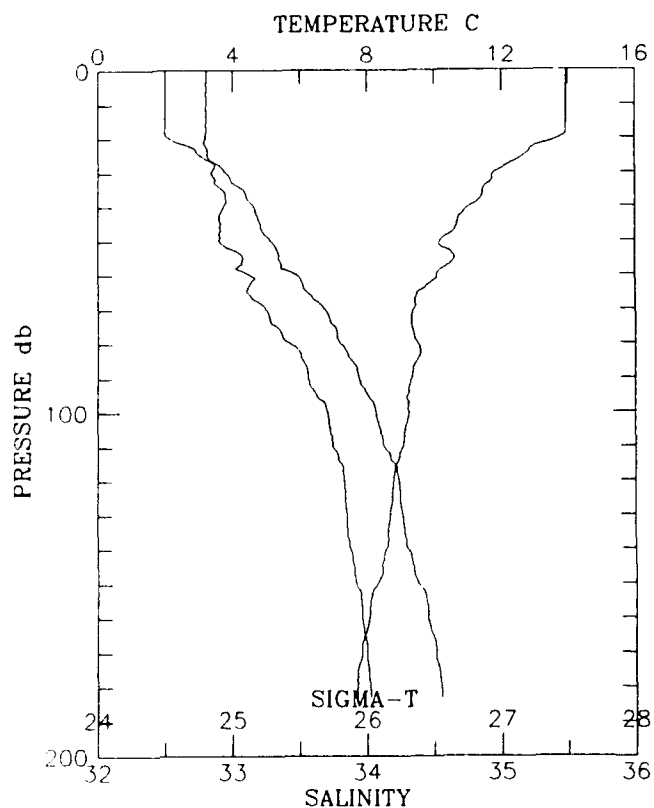
Cruise W8905 Station # 12 Depth m: 353 Time: 1989-05-06 12:20  
 Position: 38 9.30'N 123 28.10'W Depth Deck Offset: -0.05

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	14.147	32.807	24.463	0.0000	0.0
10.0		14.138	32.807	24.465	0.0349	0.0
20.0		13.099	32.866	24.721	0.0686	0.0
30.0		11.238	32.923	25.117	0.0997	0.0
40.0		11.065	33.025	25.227	0.1279	0.0
50.0		10.679	33.072	25.332	0.1552	0.0
60.0		10.402	33.205	25.482	0.1813	0.0
80.0		9.819	33.384	25.720	0.2299	0.0
100.0		8.813	33.406	25.900	0.2742	0.0
150.0		8.277	33.958	26.414	0.3672	0.0
200.0		7.463	34.037	26.596	0.4460	0.0
250.0		6.888	34.067	26.699	0.5178	0.0
300.0		6.743	34.092	26.738	0.5873	0.0
344.0		6.385	34.116	26.805	0.6469	0.0



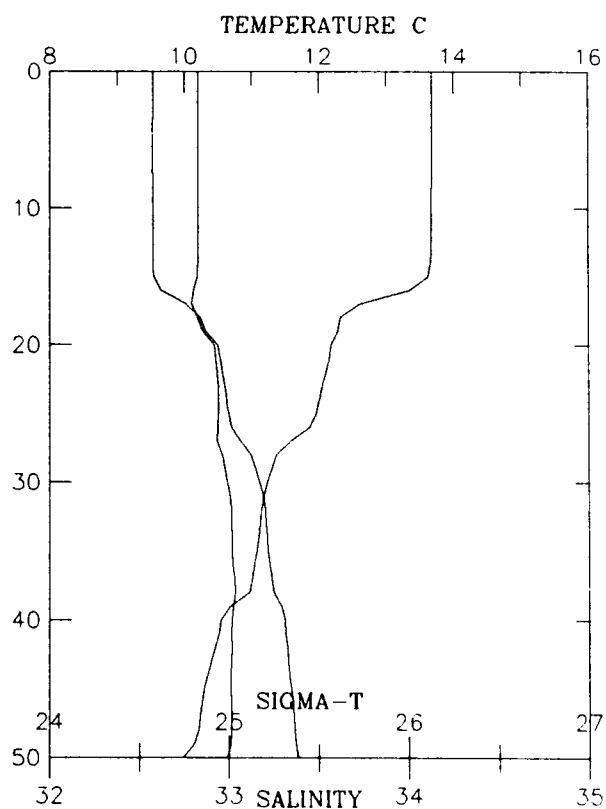
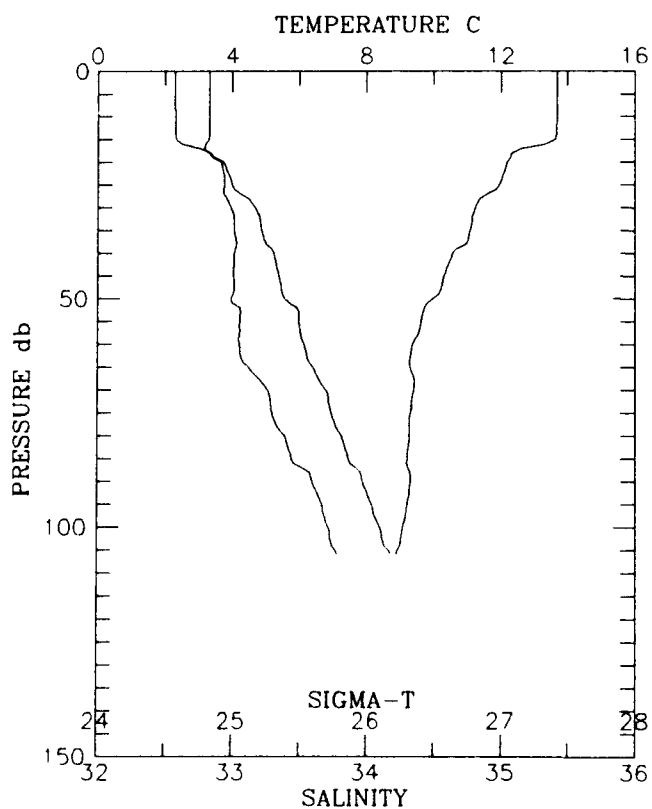
Cruise W8905 Station # 13 Depth m: 201 Time: 1989-05-06 13:16  
 Position: 38 10.50'N 123 22.10'W Depth Deck Offset: -0.25

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 13.952	32.805	24.502	0.0000	0.0
10.0	13.953	32.804	24.501	0.0346	0.0
20.0	13.764	32.799	24.536	0.0692	0.0
30.0	11.784	32.841	24.953	0.1013	0.0
40.0	11.042	32.934	25.160	0.1306	0.0
50.0	10.196	32.905	25.284	0.1585	0.0
60.0	10.083	33.132	25.480	0.1851	0.0
70.0	9.392	33.251	25.687	0.2096	0.0
80.0	9.524	33.425	25.801	0.2325	0.0
90.0	9.332	33.564	25.941	0.2540	0.0
100.0	9.249	33.709	26.068	0.2745	0.0
110.0	9.073	33.744	26.123	0.2941	0.0
120.0	8.788	33.830	26.236	0.3127	0.0
130.0	8.693	33.852	26.268	0.3309	0.0
140.0	8.564	33.872	26.303	0.3488	0.0
150.0	8.309	33.916	26.377	0.3662	0.0
160.0	8.059	33.962	26.450	0.3827	0.0
170.0	7.836	33.999	26.512	0.3987	0.0
180.0	7.697	34.019	26.548	0.4142	0.0
183.0	7.682	34.024	26.554	0.4189	0.0



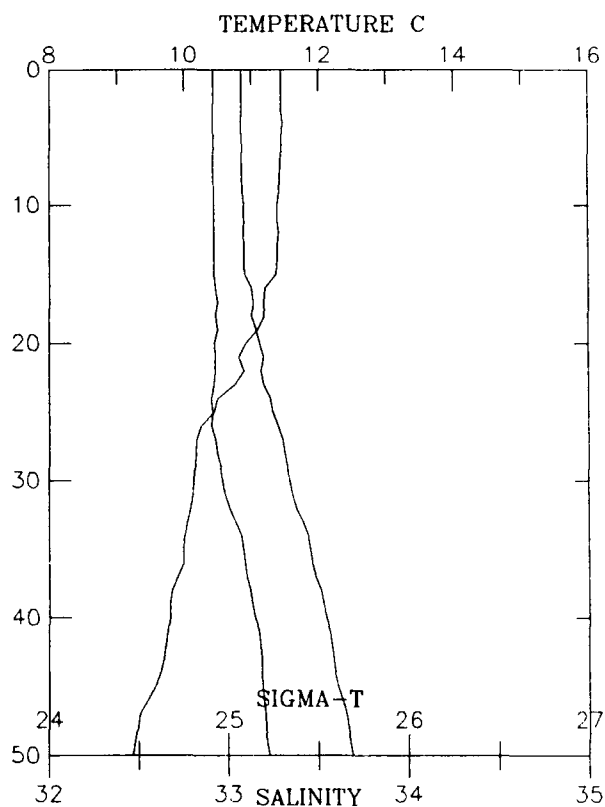
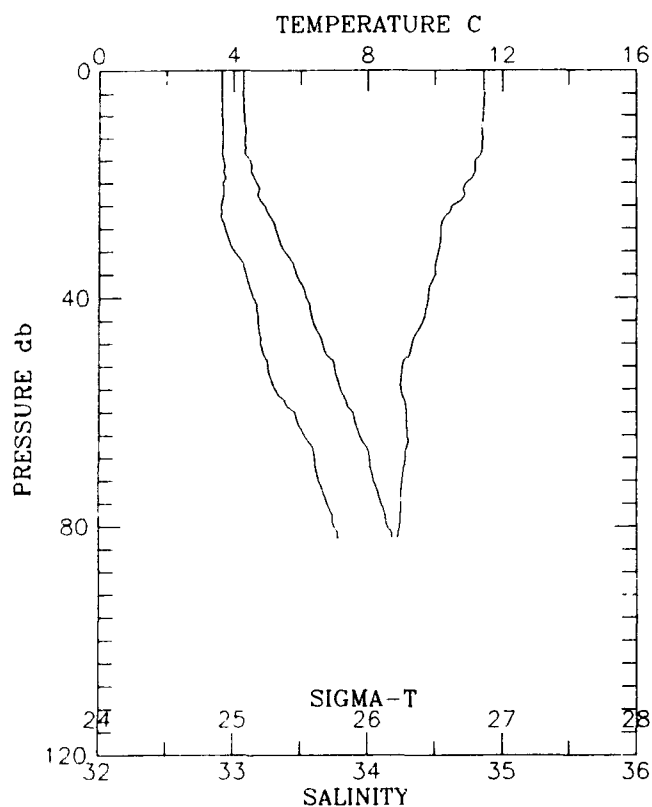
Cruise W8905 Station # 14 Depth m: 115 Time: 1989-05-06 14:04  
 Position: 38 11.50'N 123 15.90'W Depth Deck Offset: -0.25

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	13.682	32.828	24.575	0.0000
10.0		13.673	32.828	24.577	0.0339
20.0		12.185	32.918	24.938	0.0668
30.0		11.238	32.991	25.170	0.0964
40.0		10.548	33.016	25.310	0.1242
50.0		9.980	32.990	25.386	0.1508
60.0		9.369	33.052	25.535	0.1761
70.0		9.409	33.269	25.698	0.2003
80.0		9.279	33.393	25.816	0.2232
90.0		9.316	33.598	25.970	0.2448
100.0		9.079	33.718	26.102	0.2650
106.0		8.894	33.784	26.183	0.2766



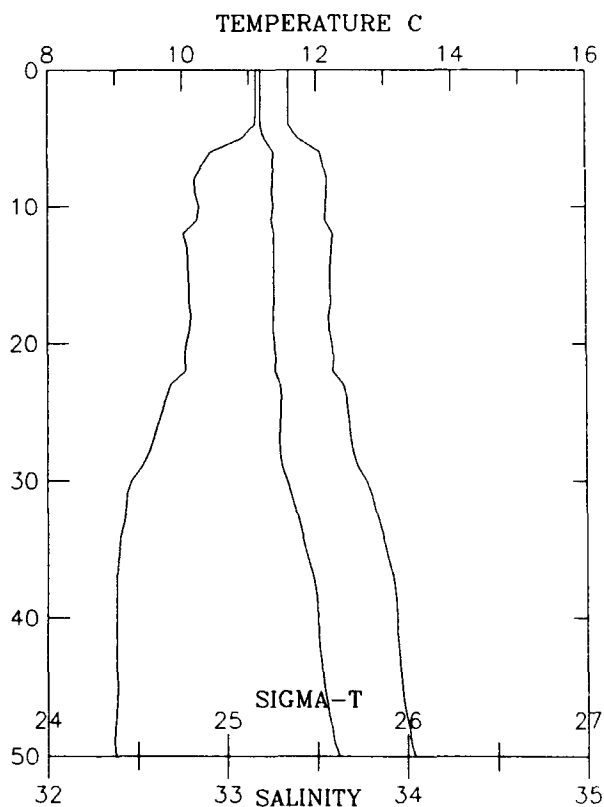
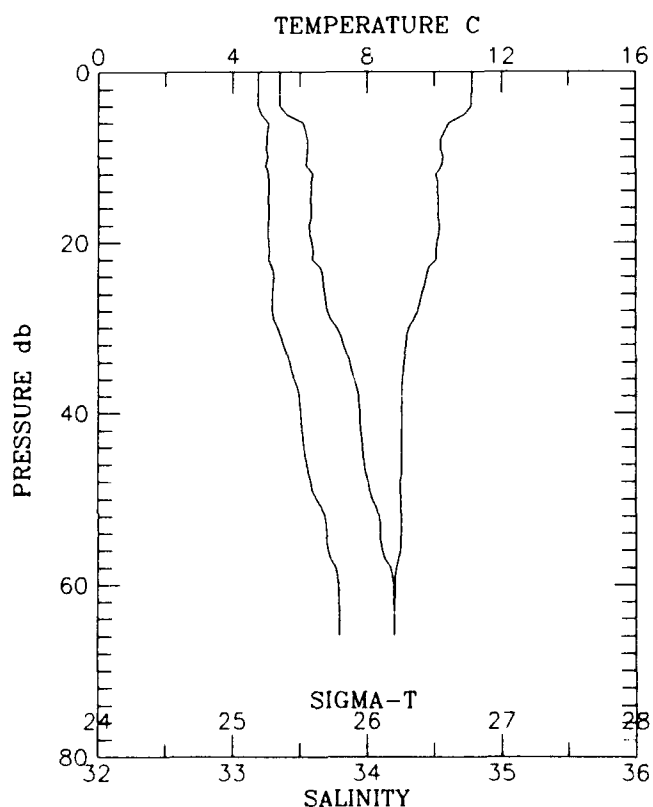
Cruise W8905 Station # 15 Depth m: 92 Time: 1989-05-06 14:52  
 Position: 38 12.60'N 123 10.20'W Depth Deck Offset: -0.25

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	11.452	32.915	25.072	0.0000
5.0		11.454	32.914	25.071	0.0146
10.0		11.389	32.918	25.086	0.0291
15.0		11.373	32.918	25.089	0.0437
20.0		10.931	32.924	25.172	0.0579
25.0		10.449	32.913	25.247	0.0719
30.0		10.146	32.968	25.341	0.0854
35.0		9.999	33.081	25.454	0.0985
40.0		9.787	33.146	25.540	0.1111
45.0		9.578	33.189	25.608	0.1233
50.0		9.241	33.226	25.691	0.1351
55.0		8.972	33.293	25.786	0.1465
60.0		9.135	33.455	25.887	0.1575
65.0		9.190	33.552	25.954	0.1682
70.0		9.063	33.617	26.025	0.1784
75.0		8.989	33.682	26.088	0.1883
80.0		8.957	33.746	26.143	0.1980
82.0		8.894	33.782	26.181	0.2018



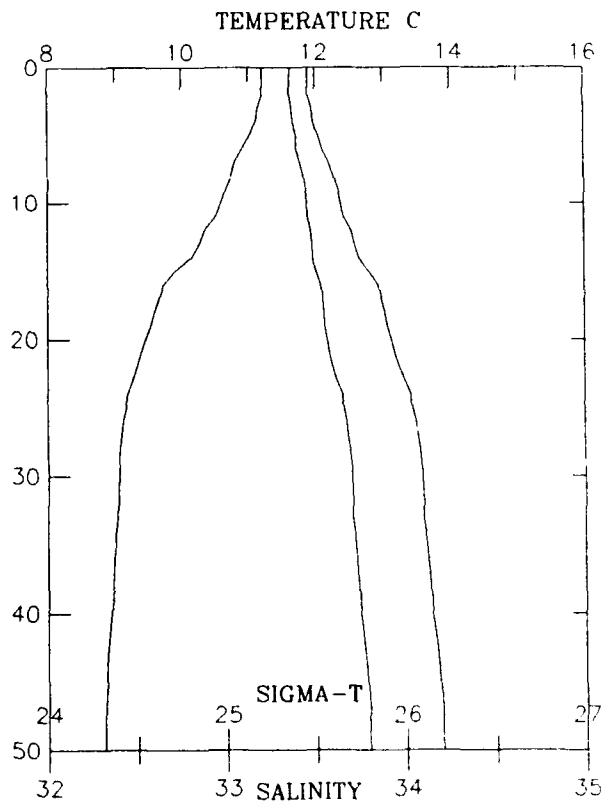
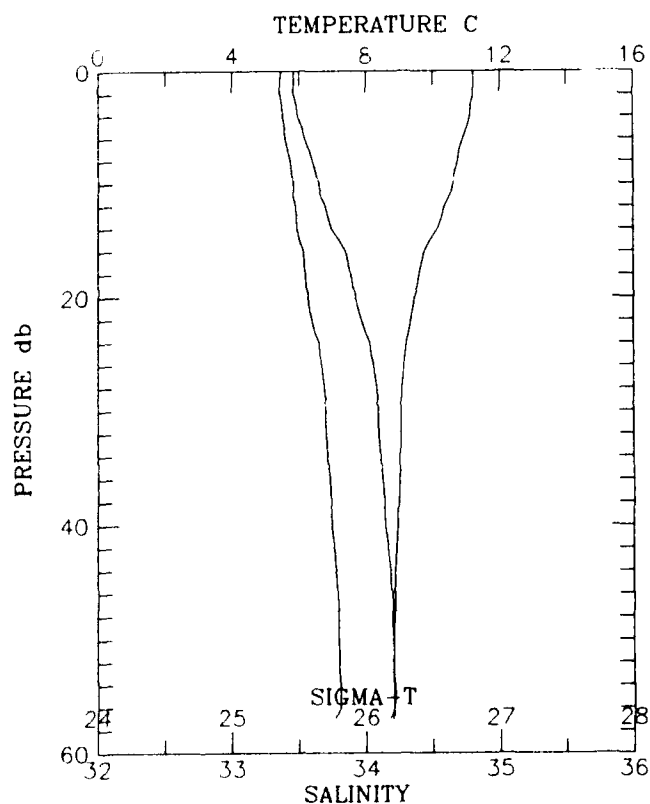
Cruise W8905 Station # 16 Depth m: 75 Time: 1989-05-06 15:38  
 Position: 38 13.70'N 123 4.20'W Depth Deck Offset: -0.25

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	11.112	33.191	25.348	0.0000	0.0
5.0		10.905	33.214	25.403	0.0132	0.0
10.0		10.258	33.262	25.552	0.0256	0.0
15.0		10.103	33.263	25.578	0.0378	0.0
20.0		10.069	33.267	25.588	0.0500	0.0
25.0		9.699	33.301	25.676	0.0620	0.0
30.0		9.247	33.336	25.776	0.0735	0.0
35.0		9.066	33.436	25.883	0.0845	0.0
40.0		9.025	33.505	25.944	0.0951	0.0
45.0		9.029	33.538	25.969	0.1055	0.0
50.0		8.999	33.620	26.038	0.1157	0.0
55.0		8.997	33.700	26.101	0.1255	0.0
60.0		8.828	33.787	26.196	0.1350	0.0
65.0		8.815	33.795	26.204	0.1443	0.0
66.0		8.815	33.796	26.205	0.1461	0.0



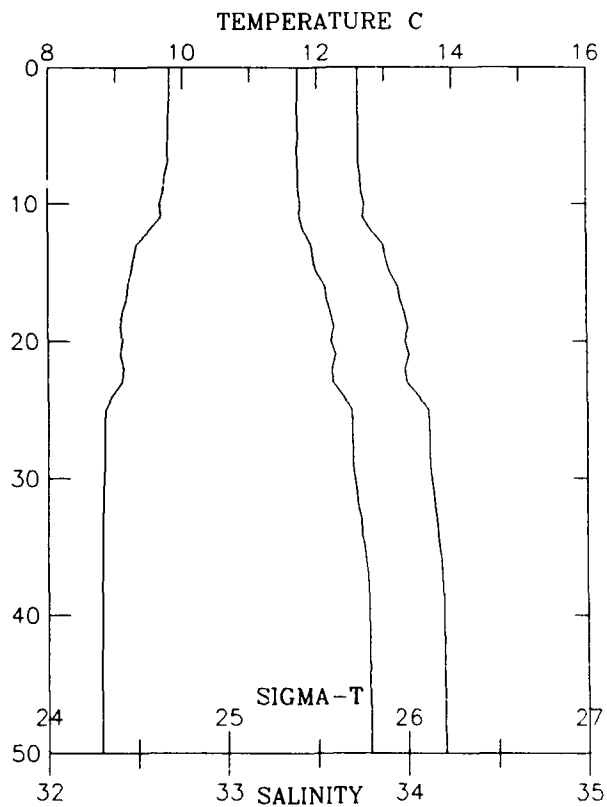
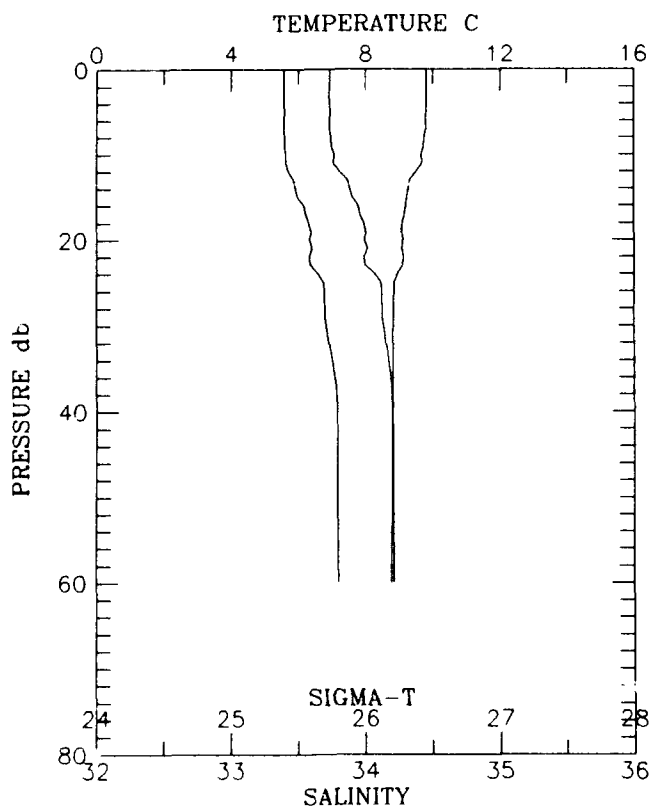
Cruise W8905 Station # 17 Depth m: 68 Time: 1989-05-06 16:05  
 Position: 38 14.10'N 123 1.70'W Depth Deck Offset: -0.25

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	11.212	33.361	25.462	0.0000
5.0		11.033	33.395	25.521	0.0126
10.0		10.591	33.454	25.644	0.0248
15.0		9.911	33.503	25.798	0.0363
20.0		9.463	33.566	25.921	0.0471
25.0		9.167	33.657	26.040	0.0574
30.0		9.054	33.698	26.090	0.0672
35.0		9.002	33.719	26.115	0.0769
40.0		8.941	33.746	26.146	0.0865
45.0		8.865	33.781	26.185	0.0959
50.0		8.837	33.795	26.201	0.1052
55.0		8.816	33.804	26.211	0.1144
57.0		8.820	33.765	26.180	0.1181



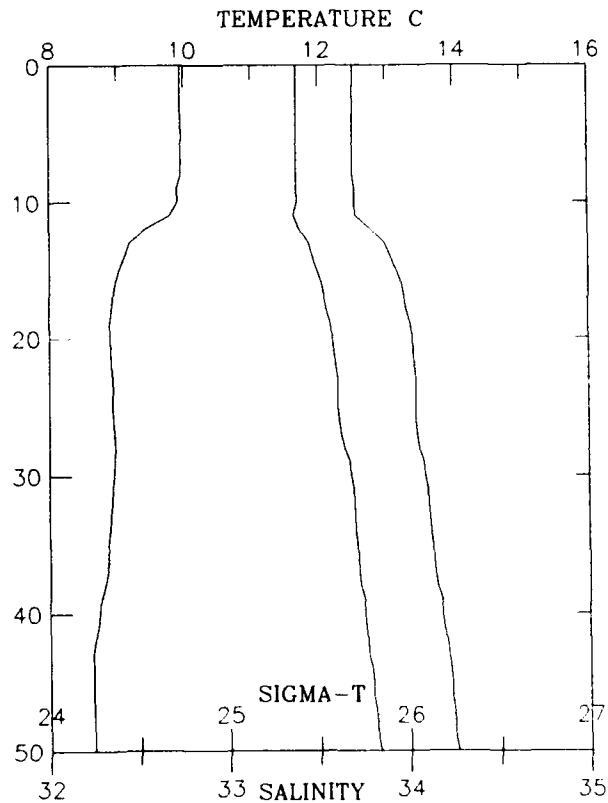
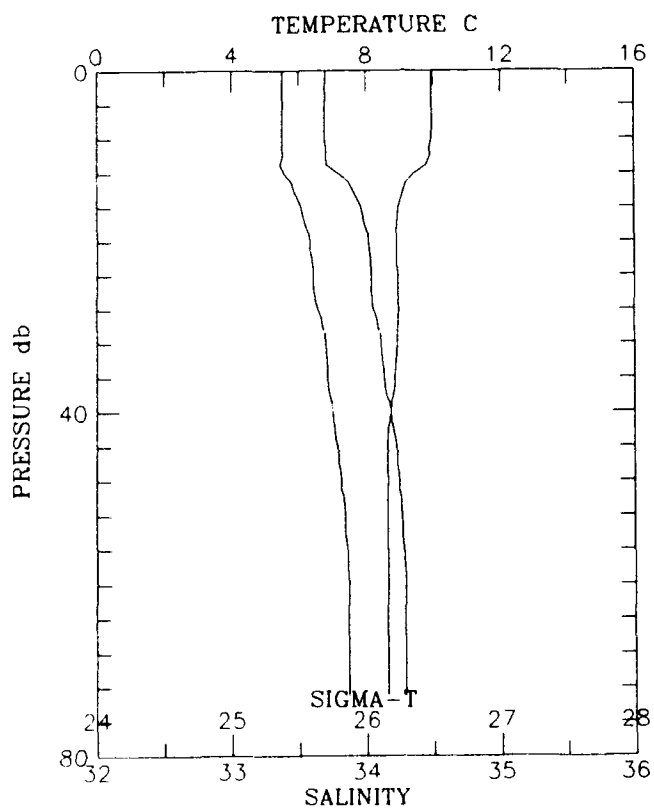
Cruise W8905 Station # 18 Depth m: 65 Time: 1989-05-06 19:34  
 Position: 38 40.60'N 123 26.70'W Depth Deck Offset: -0.20

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.806	33.395	25.731	0.0000	0.0
5.0		9.792	33.397	25.735	0.0114	0.0
10.0		9.670	33.409	25.765	0.0228	0.0
15.0		9.234	33.496	25.904	0.0338	0.0
20.0		9.101	33.579	25.990	0.0441	0.0
25.0		8.852	33.689	26.115	0.0542	0.0
30.0		8.828	33.709	26.135	0.0638	0.0
35.0		8.811	33.763	26.179	0.0732	0.0
40.0		8.800	33.786	26.199	0.0825	0.0
45.0		8.793	33.789	26.203	0.0918	0.0
50.0		8.790	33.791	26.205	0.1010	0.0
55.0		8.780	33.795	26.210	0.1102	0.0
60.0		8.772	33.799	26.214	0.1194	0.0



Cruise W8905 Station # 19 Depth m: 81 Time: 1989-05-06 20:00  
 Position: 38 39.60'N 123 27.80'W Depth Deck Offset: -0.20

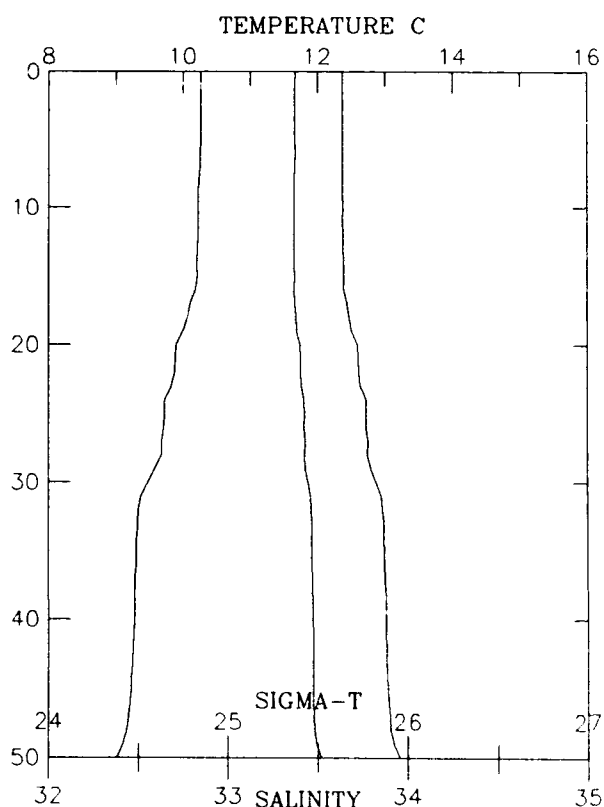
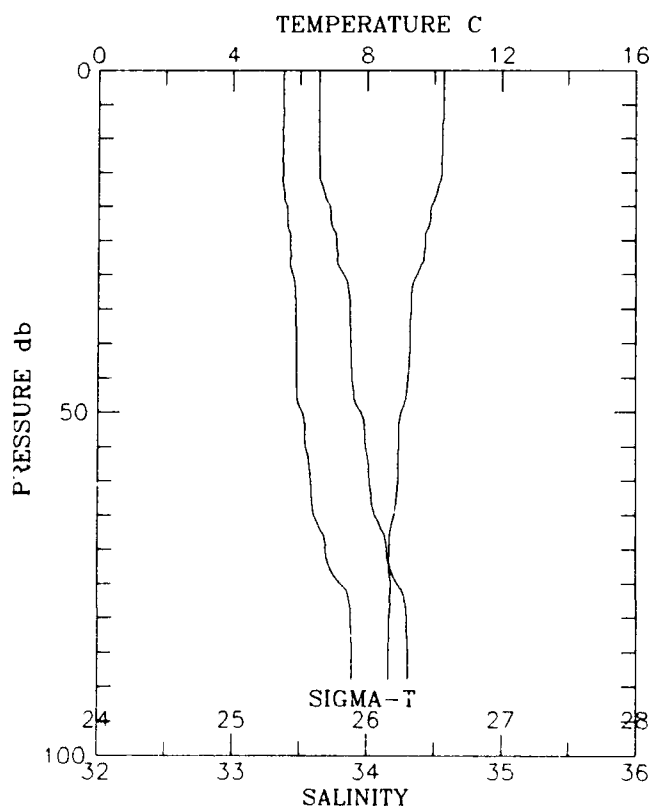
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.955	33.381	25.696	0.0000
5.0		9.973	33.380	25.692	0.0116
10.0		9.917	33.383	25.704	0.0232
15.0		9.034	33.495	25.935	0.0343
20.0		8.903	33.579	26.021	0.0445
25.0		8.940	33.608	26.038	0.0545
30.0		8.959	33.680	26.091	0.0644
35.0		8.868	33.713	26.131	0.0741
40.0		8.735	33.751	26.182	0.0836
45.0		8.638	33.795	26.232	0.0928
50.0		8.648	33.833	26.260	0.1018
55.0		8.638	33.854	26.278	0.1108
60.0		8.628	33.866	26.289	0.1196
65.0		8.627	33.867	26.290	0.1285
70.0		8.627	33.867	26.290	0.1373
73.0		8.626	33.869	26.291	0.1426





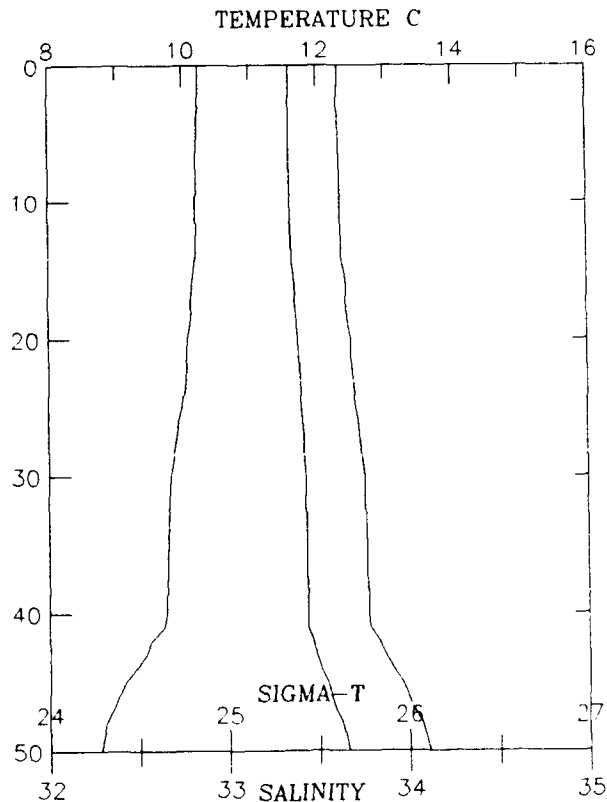
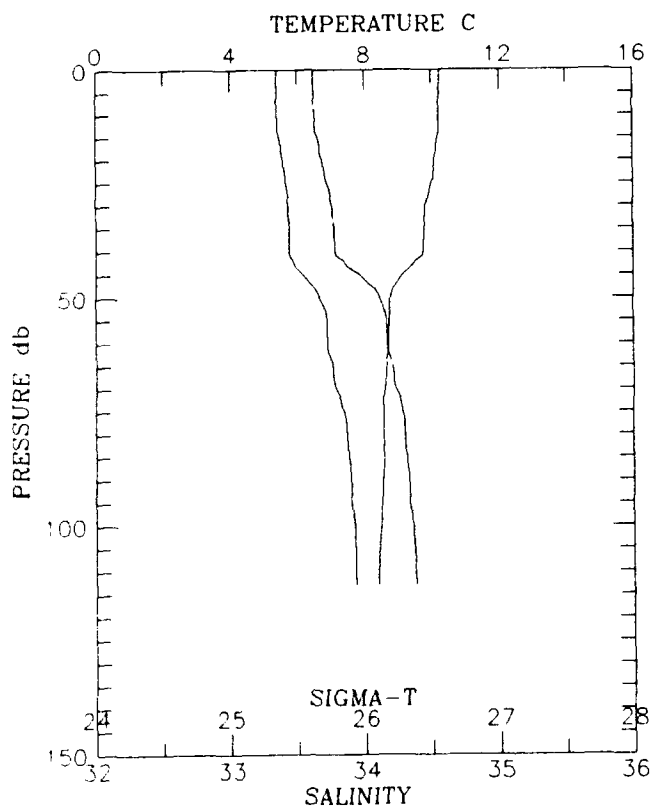
Cruise W8905 Station # 20 Depth m: 95 Time: 1989-05-06 20:30  
 Position: 38 38.20'N 123 29.30'W Depth Deck Offset: -0.43

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.265	33.376	25.639	0.0000
5.0		10.263	33.375	25.639	0.0119
10.0		10.226	33.371	25.642	0.0238
15.0		10.214	33.372	25.645	0.0356
20.0		9.901	33.403	25.722	0.0473
25.0		9.719	33.428	25.772	0.0588
30.0		9.485	33.445	25.823	0.0700
35.0		9.307	33.470	25.872	0.0808
40.0		9.272	33.473	25.880	0.0916
45.0		9.228	33.475	25.888	0.1024
50.0		9.016	33.519	25.956	0.1130
55.0		8.947	33.545	25.988	0.1233
60.0		8.922	33.580	26.019	0.1335
65.0		8.802	33.608	26.060	0.1436
70.0		8.667	33.695	26.149	0.1532
75.0		8.716	33.806	26.228	0.1626
80.0		8.663	33.879	26.294	0.1715
85.0		8.642	33.887	26.303	0.1804
89.0		8.637	33.890	26.306	0.1874



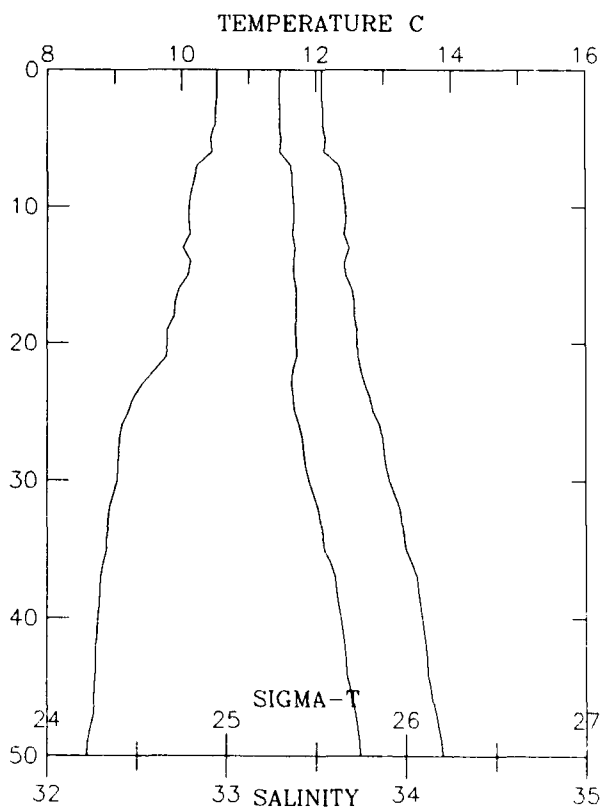
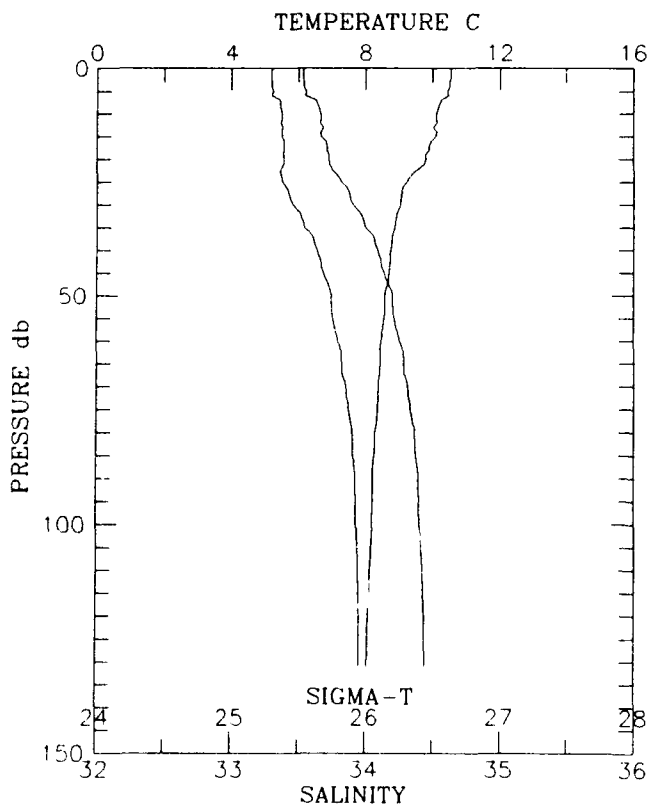
Cruise W8905 Station # 21 Depth m: 120 Time: 1989-05-06 21:05  
 Position: 38 36.20'N 123 31.90'W Depth Deck Offset: -0.25

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 10.248	33.347	25.620	0.0000	0.0
10.0	10.202	33.352	25.631	0.0239	0.0
20.0	10.075	33.393	25.685	0.0476	0.0
30.0	9.809	33.430	25.758	0.0706	0.0
40.0	9.739	33.439	25.777	0.0932	0.0
50.0	8.755	33.662	26.109	0.1141	0.0
60.0	8.694	33.721	26.165	0.1331	0.0
70.0	8.577	33.779	26.228	0.1517	0.0
80.0	8.567	33.867	26.299	0.1695	0.0
90.0	8.530	33.894	26.326	0.1870	0.0
100.0	8.464	33.920	26.356	0.2043	0.0
110.0	8.392	33.928	26.374	0.2214	0.0
113.0	8.382	33.929	26.376	0.2265	0.0



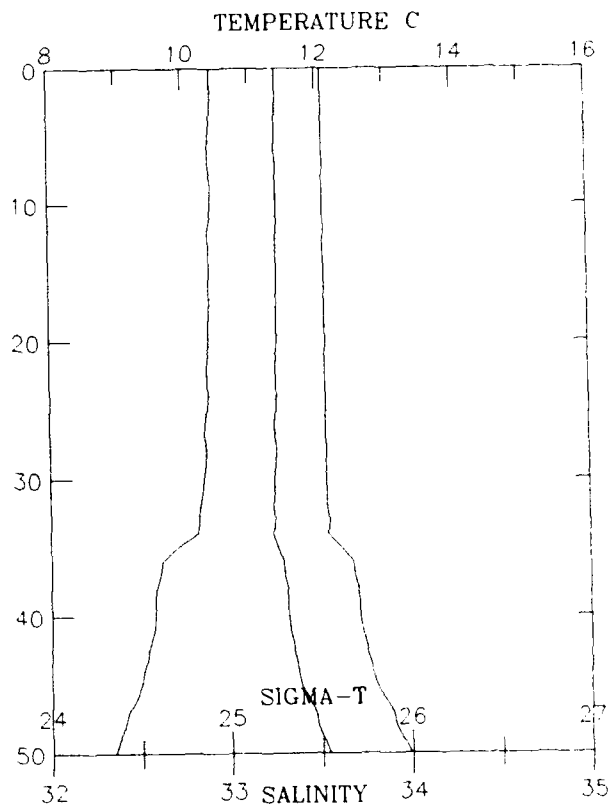
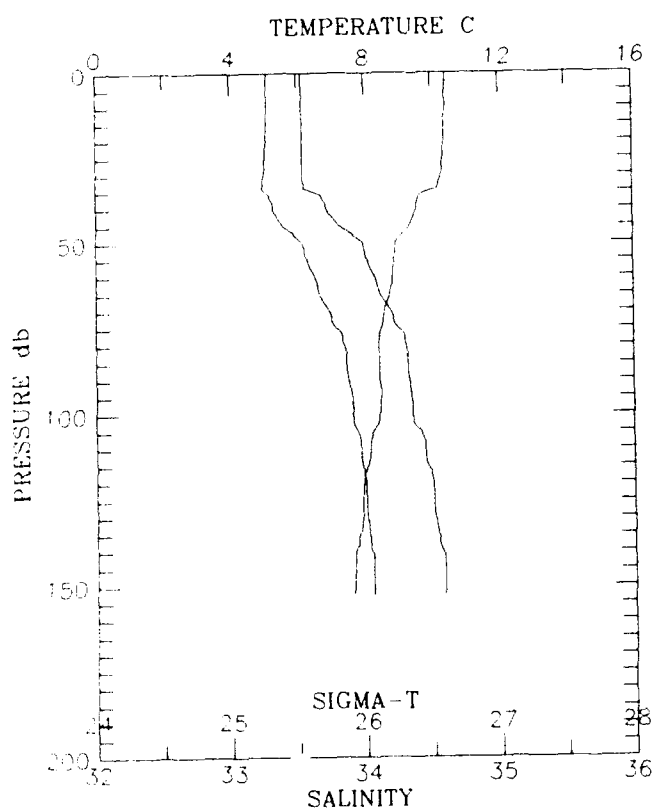
Cruise W8905 Station # 22 Depth m: 141 Time: 1989-05-06 21:34  
 Position: 38 35.20'N 123 33.70'W Depth Deck Offset: -0.28

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 10.529	33.299	25.534	0.0000	0.0
10.0	10.115	33.377	25.666	0.0243	0.0
20.0	9.792	33.390	25.730	0.0476	0.0
30.0	9.041	33.461	25.907	0.0697	0.0
40.0	8.754	33.638	26.091	0.0900	0.0
50.0	8.585	33.745	26.201	0.1090	0.0
60.0	8.479	33.794	26.255	0.1274	0.0
70.0	8.388	33.853	26.315	0.1451	0.0
80.0	8.299	33.904	26.369	0.1623	0.0
90.0	8.229	33.925	26.396	0.1792	0.0
100.0	8.211	33.933	26.405	0.1959	0.0
110.0	8.142	33.948	26.427	0.2124	0.0
120.0	8.086	33.953	26.439	0.2289	0.0
130.0	8.059	33.956	26.446	0.2452	0.0
131.0	8.059	33.956	26.446	0.2469	0.0



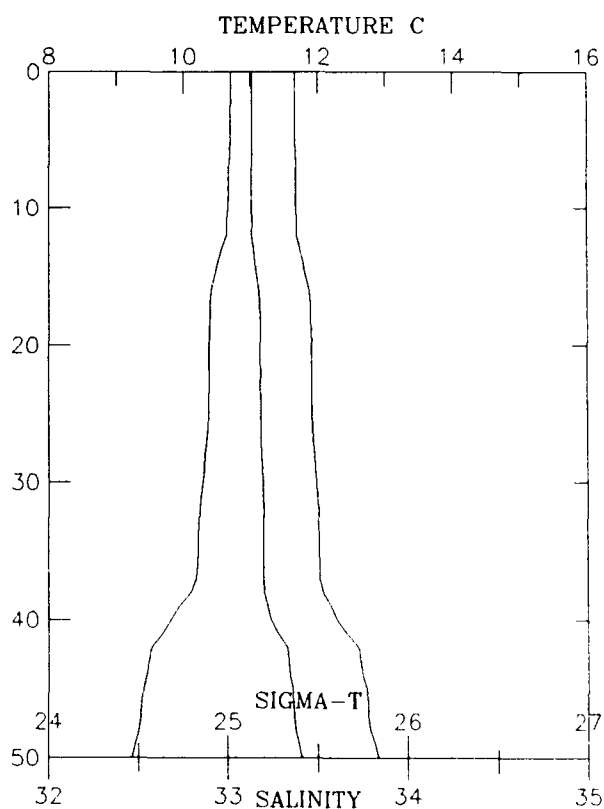
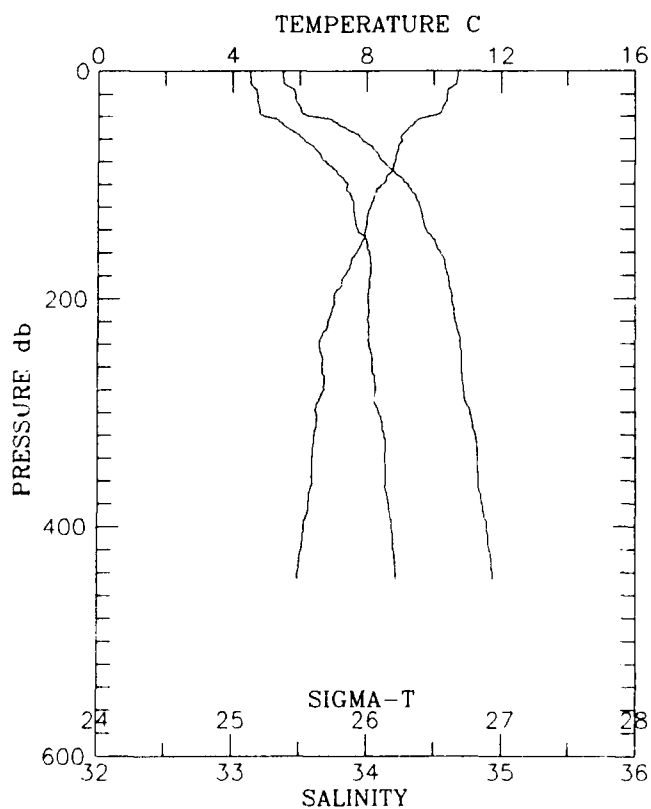
Cruise W8905 Station # 23 Depth m: 163 Time: 1989-05-06 22:09  
 Position: 38 33.00'N 123 36.90'W Depth Deck Offset: -0.25

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.444	33.280	25.534	0.0000	0.0
10.0		10.424	33.275	25.533	0.0248	0.0
20.0		10.375	33.272	25.539	0.0495	0.0
30.0		10.287	33.251	25.538	0.0743	0.0
40.0		9.541	33.320	25.716	0.0983	0.0
50.0		8.930	33.541	25.987	0.1203	0.0
60.0		8.823	33.627	26.071	0.1405	0.0
70.0		8.580	33.735	26.193	0.1598	0.0
80.0		8.413	33.841	26.302	0.1779	0.0
90.0		8.433	33.879	26.329	0.1953	0.0
100.0		8.433	33.907	26.351	0.2126	0.0
110.0		8.124	33.963	26.442	0.2293	0.0
120.0		7.929	33.997	26.497	0.2454	0.0
130.0		7.885	34.006	26.511	0.2612	0.0
140.0		7.674	34.039	26.567	0.2766	0.0
150.0		7.630	34.049	26.582	0.2917	0.0
153.0		7.625	34.051	26.583	0.2962	0.0



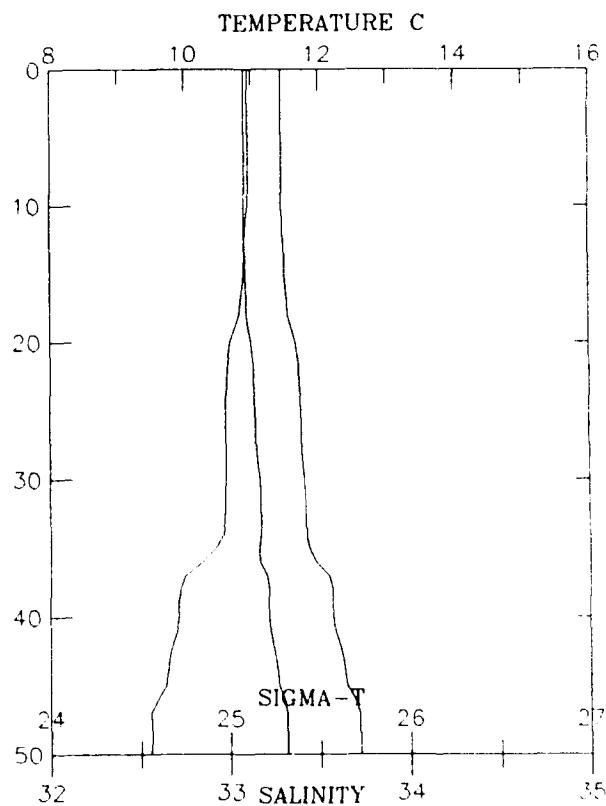
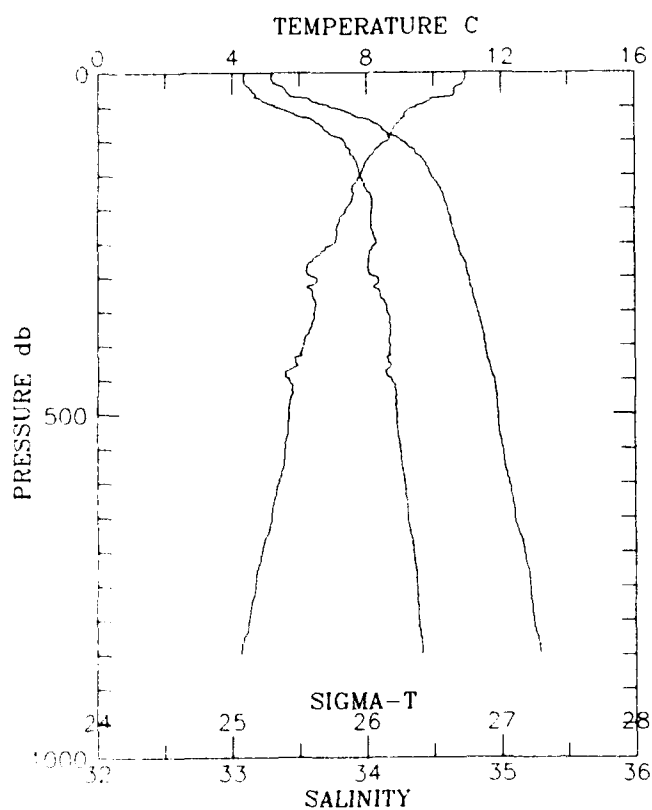
Cruise W8905 Station # 24 Depth m: 455 Time: 1989-05-06 22:49  
 Position: 38 30.90'N 123 39.80'W Depth Deck Offset: -0.28

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 10.712	33.133	25.373	0.0000	0.0
10.0	10.675	33.133	25.379	0.0263	0.0
20.0	10.390	33.182	25.467	0.0520	0.0
30.0	10.293	33.193	25.492	0.0774	0.0
40.0	9.818	33.237	25.606	0.1024	0.0
50.0	9.240	33.409	25.835	0.1251	0.0
60.0	9.030	33.526	25.960	0.1464	0.0
80.0	8.824	33.695	26.124	0.1864	0.0
100.0	8.459	33.858	26.308	0.2233	0.0
150.0	7.867	33.999	26.508	0.3068	0.0
200.0	7.019	34.009	26.635	0.3820	0.0
250.0	6.673	34.038	26.705	0.4535	0.0
300.0	6.494	34.090	26.770	0.5228	0.0
400.0	6.132	34.190	26.896	0.6524	0.0
446.0	5.950	34.215	26.939	0.7085	0.0



Cruise W0905 Station # 25 Depth m: 865 Time: 1989-05-06 23:33  
 Position: 38 29.10'N 123 42.60'W Depth Deck Offset: -0.17

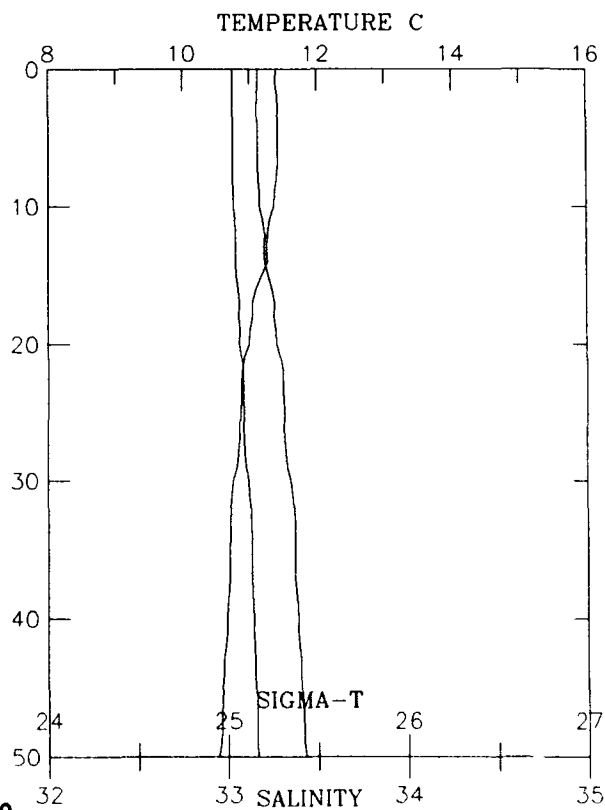
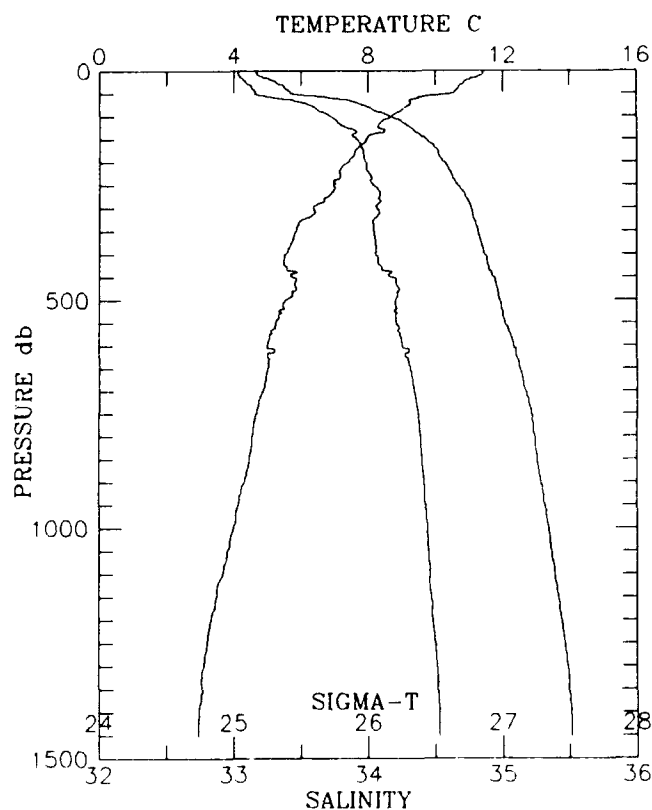
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.949	33.086	25.294	0.0000
10.0		10.949	33.085	25.294	0.0270
20.0		10.682	33.123	25.370	0.0539
30.0		10.614	33.169	25.418	0.0800
40.0		9.904	33.220	25.578	0.1053
50.0		9.481	33.316	25.723	0.1289
60.0		9.120	33.456	25.890	0.1510
80.0		8.819	33.677	26.111	0.1917
100.0		8.617	33.825	26.258	0.2292
150.0		7.793	33.950	26.480	0.3132
200.0		7.398	34.041	26.608	0.3900
250.0		7.043	34.074	26.683	0.4629
300.0		6.471	34.077	26.763	0.5323
400.0		6.134	34.178	26.886	0.6623
500.0		5.681	34.227	26.982	0.7825
600.0		5.378	34.282	27.062	0.8968
700.0		4.888	34.345	27.169	1.0024
800.0		4.518	34.390	27.246	1.0989
850.0		4.270	34.412	27.291	1.1446



Cruise W8905 Station # 26 Depth m: 1469 Time: 1989-05-07 00:39  
 Position: 38 26.20'N 123 46.50'W Depth Deck Offset: -0.20

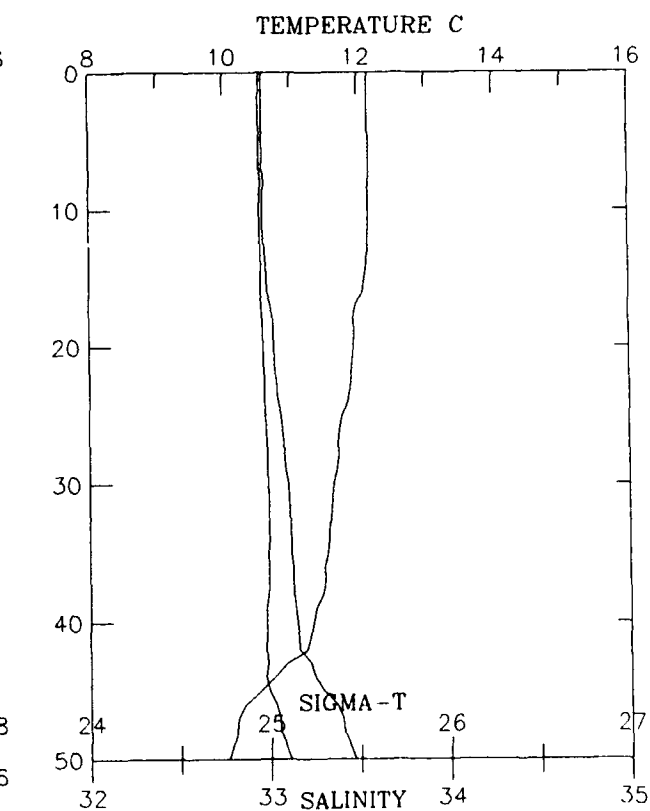
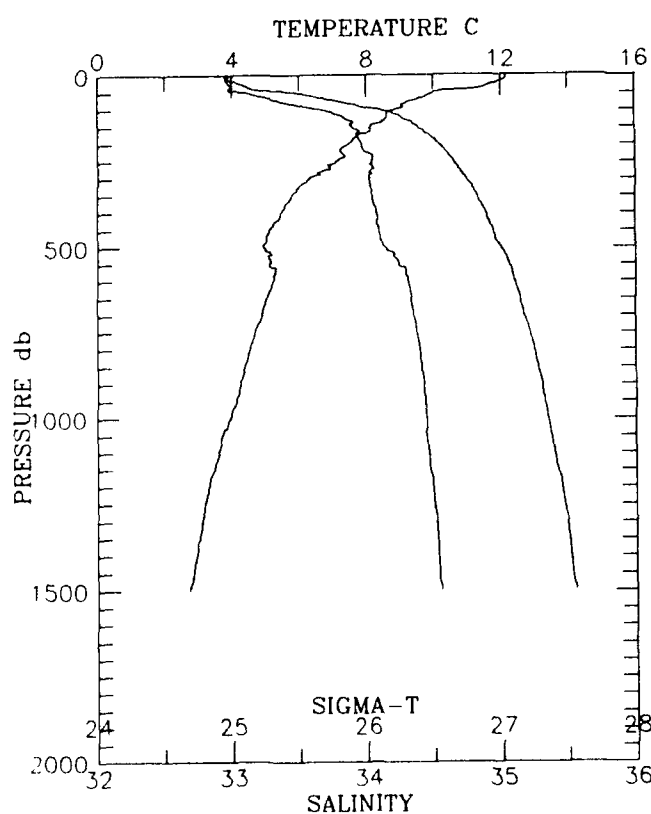
PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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0.0	E	11.396	33.033	25.174	0.0000	0.0
10.0		11.366	33.036	25.182	0.0282	0.0
20.0		10.991	33.069	25.274	0.0558	0.0
30.0		10.756	33.117	25.353	0.0827	0.0
40.0		10.654	33.143	25.391	0.1091	0.0
50.0		10.523	33.164	25.430	0.1351	0.0
60.0		9.510	33.315	25.718	0.1593	0.0
80.0		9.093	33.601	26.008	0.2020	0.0
100.0		8.684	33.721	26.167	0.2414	0.0
150.0		7.921	33.912	26.432	0.3293	0.0
200.0		7.377	33.981	26.563	0.4085	0.0
250.0		6.947	34.034	26.665	0.4826	0.0
300.0		6.360	34.062	26.766	0.5520	0.0
400.0		5.521	34.057	26.867	0.6826	0.0
500.0		5.541	34.202	26.979	0.8038	0.0
600.0		5.006	34.256	27.085	0.9162	0.0
700.0		4.851	34.340	27.169	1.0201	0.0
800.0		4.552	34.390	27.242	1.1169	0.0
900.0		4.325	34.414	27.286	1.2095	0.0
1000.0		3.985	34.439	27.341	1.2975	0.0
1100.0		3.678	34.458	27.387	1.3811	0.0
1200.0		3.330	34.480	27.439	1.4599	0.0
1300.0		3.118	34.515	27.487	1.5342	0.0
1400.0		2.967	34.527	27.510	1.6054	0.0
1452.0		2.950	34.529	27.514	1.6420	0.0



Cruise W8905 Station # 27 Depth m: 1925 Time: 1989-05-07 02:10  
 Position: 38 22.90'N 123 51.10'W Depth Deck Offset: -0.28

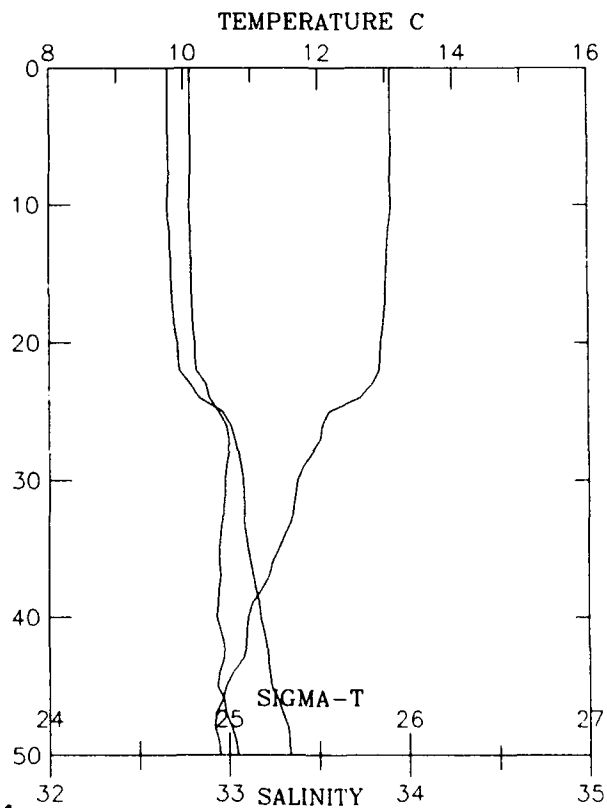
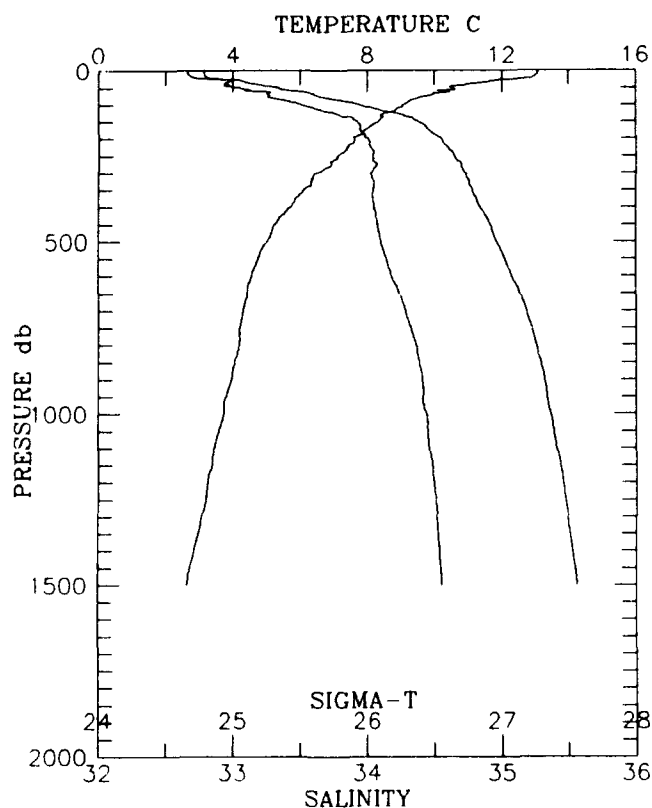
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	12.159	32.953	24.970	0.0000
10.0		12.160	32.952	24.969	0.0301
20.0		11.925	32.969	25.027	0.0600
30.0		11.611	32.992	25.103	0.0893
40.0		11.298	32.977	25.148	0.1181
50.0		10.046	33.107	25.467	0.1451
60.0		9.806	33.197	25.577	0.1700
80.0		9.183	33.396	25.834	0.2164
100.0		8.853	33.663	26.095	0.2583
150.0		8.144	33.895	26.385	0.3482
200.0		7.457	33.964	26.539	0.4292
250.0		7.119	34.041	26.647	0.5044
300.0		6.292	34.016	26.738	0.5753
400.0		5.450	34.073	26.888	0.7055
500.0		4.926	34.132	26.996	0.8251
600.0		5.208	34.305	27.100	0.9349
700.0		4.890	34.349	27.172	1.0377
800.0		4.524	34.392	27.247	1.1343
900.0		4.221	34.421	27.303	1.2256
1000.0		3.952	34.443	27.348	1.3129
1100.0		3.601	34.456	27.394	1.3955
1200.0		3.290	34.488	27.449	1.4736
1300.0		3.098	34.515	27.489	1.5474
1400.0		2.942	34.530	27.515	1.6182
1500.0		2.718	34.546	27.548	1.6866
1501.0		2.718	34.546	27.548	1.6873





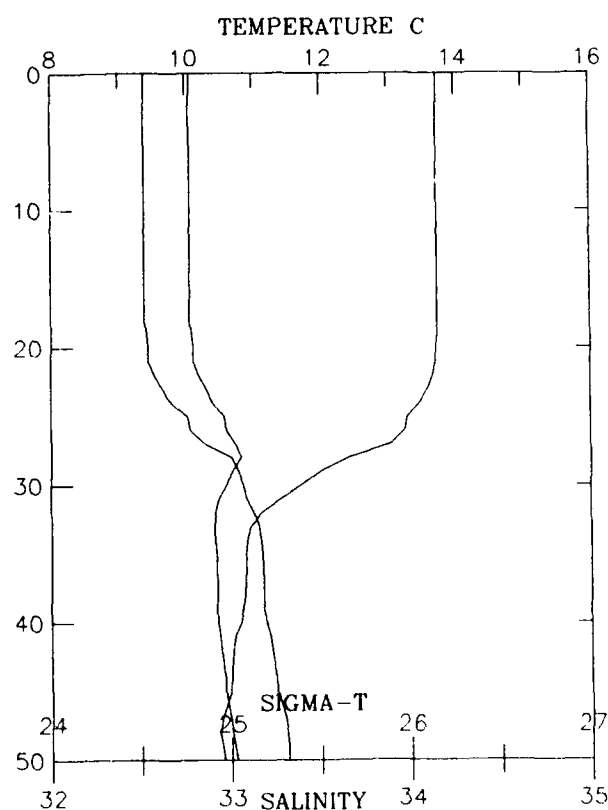
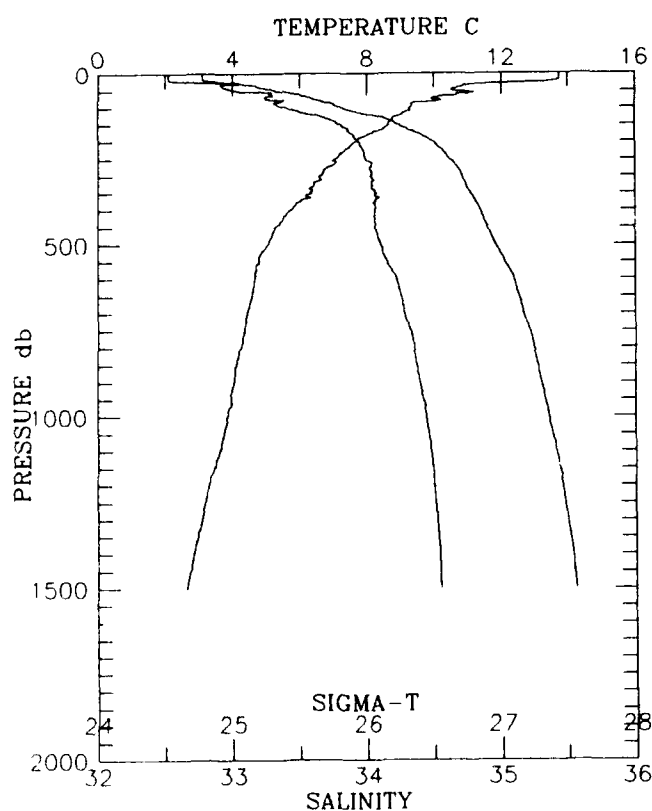
Cruise W8905 Station # 28 Depth m: 2709 Time: 1989-05-07 03:43  
 Position: 38 19.50'N 123 55.80'W Depth Deck Offset: 0.00

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 13.080	32.789	24.665	0.0000	0.0
10.0	13.086	32.786	24.662	0.0330	0.0
20.0	12.925	32.812	24.714	0.0659	0.0
30.0	11.681	32.978	25.079	0.0966	0.0
40.0	10.949	32.934	25.176	0.1254	0.0
50.0	10.529	33.047	25.338	0.1529	0.0
60.0	10.216	33.188	25.501	0.1792	0.0
80.0	9.518	33.292	25.698	0.2277	0.0
100.0	9.071	33.507	25.938	0.2719	0.0
150.0	8.343	33.924	26.378	0.3657	0.0
200.0	7.611	34.002	26.547	0.4468	0.0
250.0	7.107	34.036	26.645	0.5220	0.0
300.0	6.458	34.023	26.722	0.5932	0.0
400.0	5.716	34.052	26.839	0.7270	0.0
500.0	5.022	34.103	26.962	0.8495	0.0
600.0	4.559	34.181	27.076	0.9619	0.0
700.0	4.310	34.284	27.184	1.0644	0.0
800.0	4.189	34.362	27.259	1.1592	0.0
900.0	3.957	34.409	27.320	1.2484	0.0
1000.0	3.741	34.440	27.367	1.3333	0.0
1100.0	3.455	34.458	27.409	1.4139	0.0
1200.0	3.252	34.491	27.455	1.4905	0.0
1300.0	3.085	34.518	27.492	1.5637	0.0
1400.0	2.854	34.537	27.529	1.6338	0.0
1500.0	2.645	34.553	27.560	1.7004	0.0
1502.0	2.644	34.553	27.560	1.7017	0.0



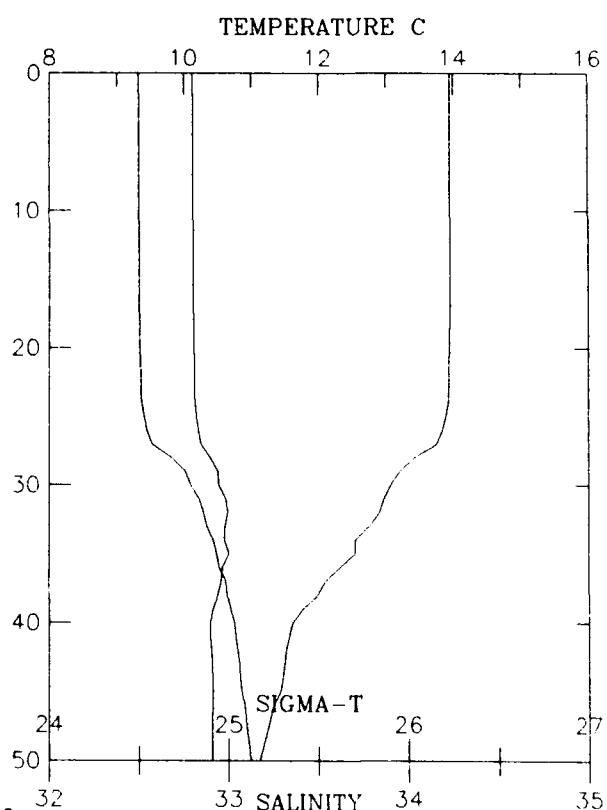
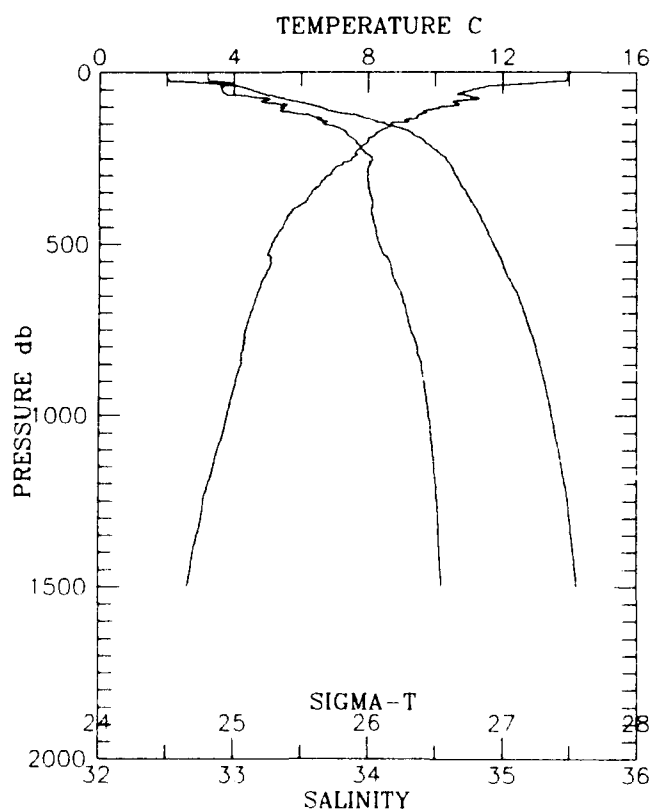
Cruise W8905 Station # 29 Depth m: 3701 Time: 1989-05-07 05:19  
 Position: 38 16.00'N 124 0.50'W Depth Deck Offset: -0.28

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 13.734	32.776	24.524	0.0000	0.0
10.0	13.733	32.776	24.524	0.0344	0.0
20.0	13.714	32.792	24.541	0.0687	0.0
30.0	11.707	32.975	25.072	0.1008	0.0
40.0	10.804	32.927	25.196	0.1293	0.0
50.0	10.555	33.026	25.317	0.1567	0.0
60.0	10.746	33.267	25.471	0.1829	0.0
80.0	10.215	33.377	25.649	0.2321	0.0
100.0	9.308	33.397	25.814	0.2781	0.0
150.0	8.668	33.807	26.236	0.3789	0.0
200.0	7.661	33.935	26.488	0.4646	0.0
250.0	7.071	33.987	26.611	0.5417	0.0
300.0	6.568	34.027	26.710	0.6137	0.0
400.0	5.716	34.058	26.844	0.7485	0.0
500.0	5.055	34.100	26.956	0.8719	0.0
600.0	4.667	34.220	27.095	0.9837	0.0
700.0	4.446	34.278	27.165	1.0865	0.0
800.0	4.241	34.348	27.242	1.1829	0.0
900.0	4.043	34.394	27.299	1.2739	0.0
1000.0	3.843	34.439	27.356	1.3602	0.0
1100.0	3.615	34.473	27.406	1.4420	0.0
1200.0	3.300	34.500	27.458	1.5190	0.0
1300.0	3.077	34.519	27.494	1.5921	0.0
1400.0	2.837	34.538	27.531	1.6618	0.0
1500.0	2.639	34.547	27.556	1.7286	0.0
1502.0	2.637	34.547	27.556	1.7299	0.0



Cruise W8905 Station # 30 Depth m: 3781 Time: 1989-05-07 06:58  
 Position: 38 12.50'N 124 5.00'W Depth Deck Offset: -0.20

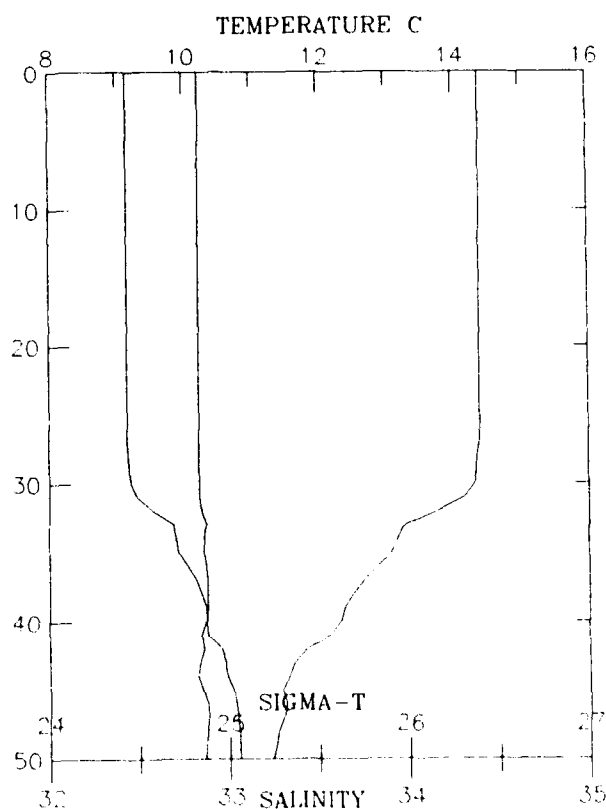
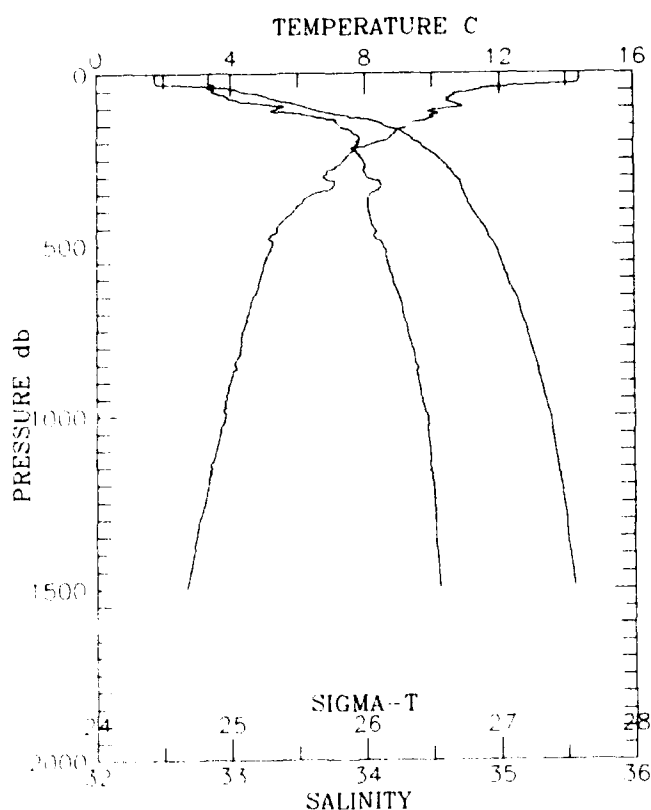
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 13.948	32.797	24.496	0.0000	0.0
10.0	13.949	32.804	24.501	0.0346	0.0
20.0	13.945	32.805	24.503	0.0692	0.0
30.0	13.068	32.945	24.788	0.1031	0.0
40.0	11.611	32.898	25.030	0.1337	0.0
50.0	11.132	32.908	25.124	0.1629	0.0
60.0	10.821	32.922	25.189	0.1913	0.0
80.0	11.057	33.237	25.393	0.2456	0.0
100.0	10.327	33.363	25.619	0.2958	0.0
150.0	8.669	33.665	26.125	0.4047	0.0
200.0	7.989	33.909	26.419	0.4937	0.0
250.0	7.516	34.029	26.582	0.5737	0.0
300.0	6.871	34.000	26.649	0.6482	0.0
400.0	5.765	34.024	26.811	0.7872	0.0
500.0	5.126	34.082	26.933	0.9134	0.0
600.0	4.877	34.191	27.048	1.0291	0.0
700.0	4.508	34.285	27.164	1.1341	0.0
800.0	4.288	34.365	27.250	1.2307	0.0
900.0	4.062	34.416	27.315	1.3210	0.0
1000.0	3.813	34.451	27.368	1.4060	0.0
1100.0	3.531	34.481	27.420	1.4865	0.0
1200.0	3.254	34.505	27.466	1.5626	0.0
1300.0	3.045	34.523	27.500	1.6346	0.0
1400.0	2.809	34.532	27.529	1.7041	0.0
1500.0	2.645	34.548	27.556	1.7711	0.0
1501.0	2.644	34.548	27.556	1.7717	0.0



Cruise W8905 Station # 31 Depth m: 3685 Time: 1989-05-07 08:27  
 Position: 38 9.00'N 124 9.60'W Depth Deck Offset: -0.15

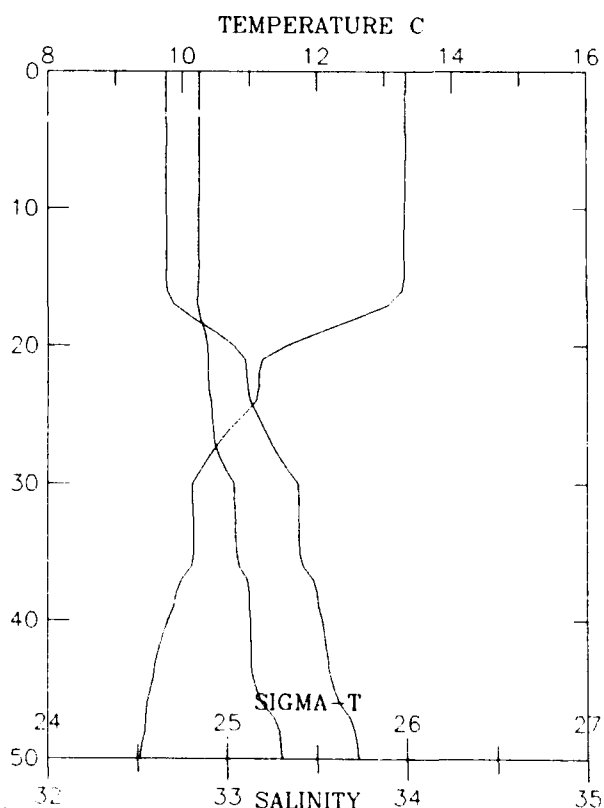
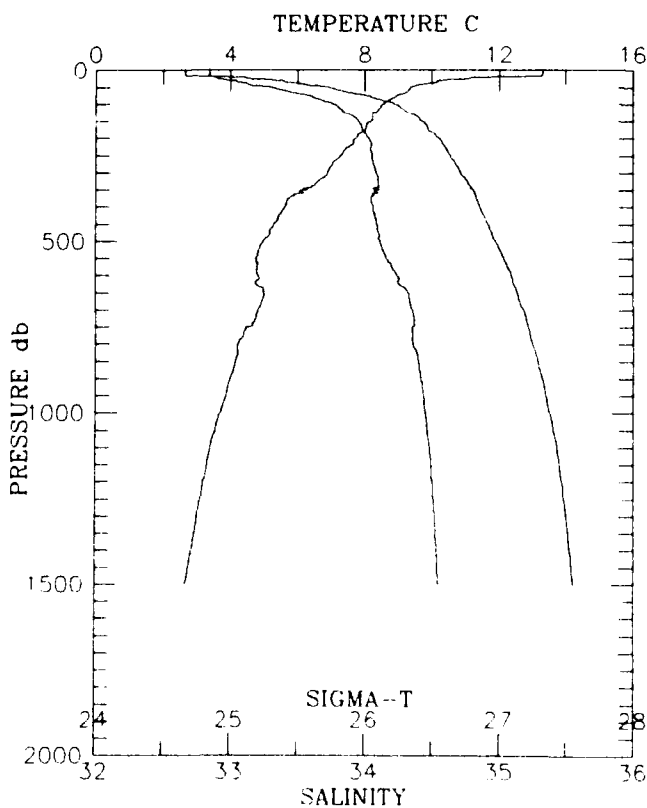
PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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0.0	E	14.398	32.838	24.434	0.0000	0.0
10.0		14.394	32.837	24.434	0.0352	0.0
20.0		14.387	32.837	24.436	0.0705	0.0
30.0		14.306	32.836	24.452	0.1057	0.0
40.0		12.324	32.872	24.876	0.1383	0.0
50.0		11.304	32.863	25.058	0.1683	0.0
60.0		10.639	32.908	25.210	0.1971	0.0
80.0		10.456	33.059	25.359	0.2516	0.0
100.0		10.709	33.370	25.558	0.3026	0.0
150.0		9.315	33.803	26.131	0.4119	0.0
200.0		8.348	33.943	26.392	0.5021	0.0
250.0		7.383	33.978	26.560	0.5828	0.0
300.0		6.755	34.004	26.667	0.6574	0.0
400.0		5.856	34.021	26.797	0.7959	0.0
500.0		5.230	34.130	26.959	0.9209	0.0
600.0		4.859	34.201	27.058	1.0345	0.0
700.0		4.531	34.278	27.156	1.1394	0.0
800.0		4.275	34.345	27.236	1.2366	0.0
900.0		3.985	34.396	27.307	1.3274	0.0
1000.0		3.818	34.457	27.373	1.4125	0.0
1100.0		3.566	34.479	27.415	1.4930	0.0
1200.0		3.318	34.501	27.457	1.5697	0.0
1300.0		3.050	34.515	27.493	1.6430	0.0
1400.0		2.866	34.527	27.520	1.7134	0.0
1500.0		2.681	34.546	27.551	1.7810	0.0
1501.0		2.681	34.545	27.551	1.7817	0.0



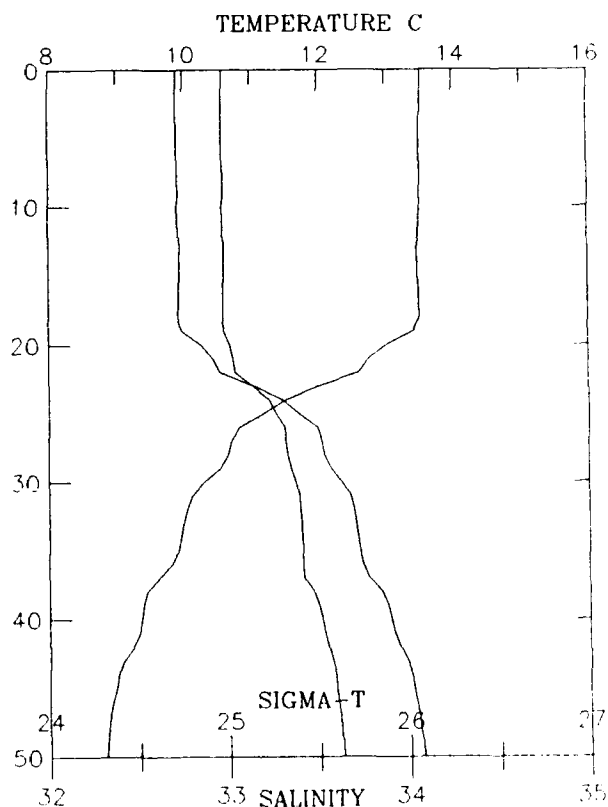
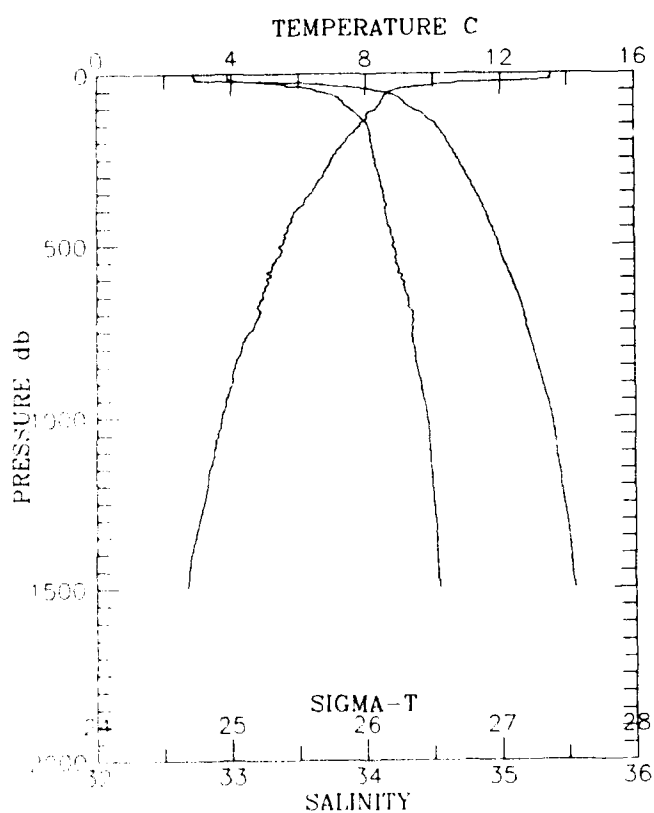
Cruise W8905 Station # 32 Depth m: 3605 Time: 1989-05-07 15:20  
 Position: 39 3.30'N 124 36.20'W Depth Deck Offset: -0.15

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	13.321	32.845	24.661	0.0000	0.0
10.0		13.307	32.843	24.662	0.0330	0.0
20.0		11.549	32.890	25.035	0.0655	0.0
30.0		10.150	33.037	25.394	0.0935	0.0
40.0		9.779	33.128	25.528	0.1193	0.0
50.0		9.367	33.303	25.731	0.1433	0.0
60.0		9.303	33.399	25.817	0.1659	0.0
80.0		8.906	33.609	26.044	0.2079	0.0
100.0		8.557	33.758	26.215	0.2463	0.0
150.0		8.191	33.954	26.425	0.3334	0.0
200.0		7.723	34.028	26.551	0.4136	0.0
250.0		7.273	34.055	26.636	0.4889	0.0
300.0		6.896	34.084	26.712	0.5606	0.0
400.0		5.639	34.063	26.857	0.6932	0.0
500.0		4.986	34.114	26.975	0.8151	0.0
600.0		4.832	34.243	27.095	0.9262	0.0
700.0		4.831	34.353	27.182	1.0293	0.0
800.0		4.236	34.359	27.251	1.1251	0.0
900.0		3.998	34.422	27.326	1.2145	0.0
1000.0		3.723	34.453	27.379	1.2984	0.0
1100.0		3.413	34.483	27.433	1.3772	0.0
1200.0		3.207	34.504	27.470	1.4523	0.0
1300.0		3.026	34.521	27.500	1.5243	0.0
1400.0		2.850	34.533	27.526	1.5938	0.0
1500.0		2.678	34.549	27.554	1.6611	0.0
1502.0		2.676	34.549	27.554	1.6624	0.0



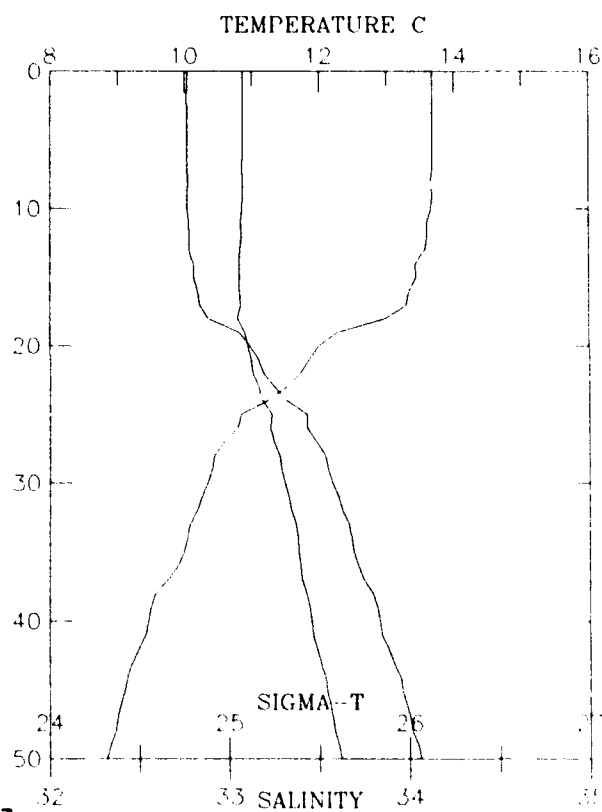
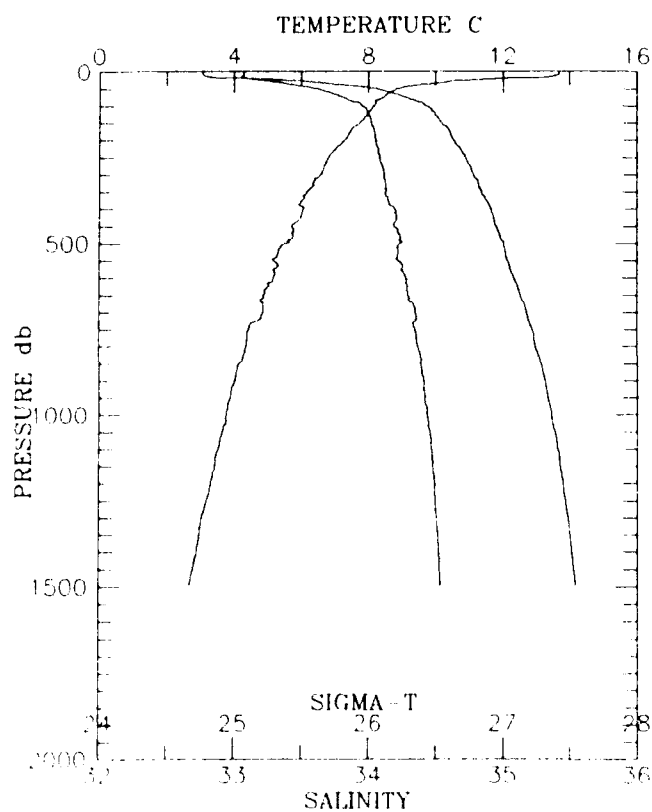
Cruise W8905 Station # 33 Depth m: 3573 Time: 1989-05-07 17:05  
 Position: 39 5.40'N 124 29.10'W Depth Deck Offset: -0.15

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 13.530	32.971	24.716	0.0000	0.0
10.0	13.512	32.971	24.720	0.0325	0.0
20.0	13.010	33.008	24.849	0.0649	0.0
30.0	10.301	33.372	25.630	0.0919	0.0
40.0	9.364	33.515	25.898	0.1146	0.0
50.0	8.830	33.629	26.072	0.1350	0.0
60.0	8.627	33.728	26.181	0.1541	0.0
80.0	8.479	33.831	26.284	0.1905	0.0
100.0	8.346	33.877	26.341	0.2257	0.0
150.0	7.844	34.016	26.525	0.3074	0.0
200.0	7.404	34.040	26.606	0.3834	0.0
250.0	6.972	34.065	26.686	0.4562	0.0
300.0	6.716	34.096	26.745	0.5260	0.0
400.0	5.938	34.146	26.886	0.6568	0.0
500.0	5.467	34.198	26.985	0.7769	0.0
600.0	5.053	34.263	27.085	0.8891	0.0
700.0	4.839	34.346	27.175	0.9923	0.0
800.0	4.305	34.361	27.245	1.0891	0.0
900.0	4.030	34.410	27.313	1.1794	0.0
1000.0	3.701	34.451	27.380	1.2638	0.0
1100.0	3.494	34.477	27.421	1.3434	0.0
1200.0	3.292	34.494	27.454	1.4198	0.0
1300.0	3.049	34.516	27.494	1.4932	0.0
1400.0	2.827	34.526	27.522	1.5632	0.0
1500.0	2.686	34.546	27.551	1.6308	0.0



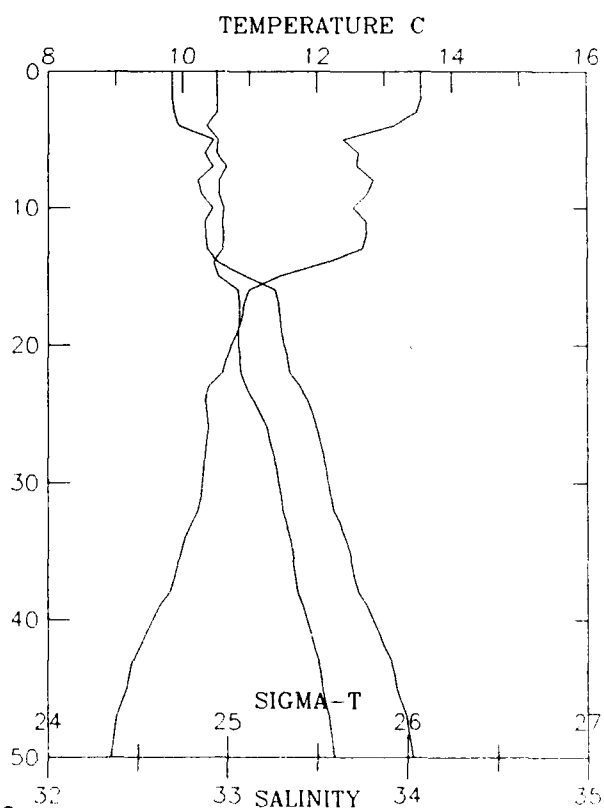
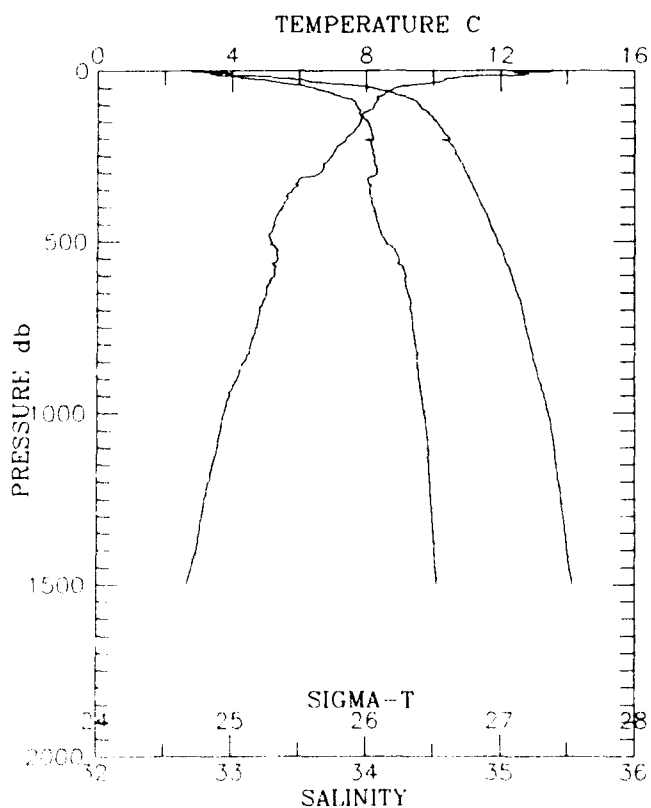
Cruise W8905 Station # 34 Depth m: 3045 Time: 1989-05-07 18:54  
 Position: 39 5.20'N 124 20.80'W Depth Deck Offset: -0.15

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	13.682	33.074	24.765	0.0000	0.0
10.0		13.663	33.070	24.766	0.0321	0.0
20.0		12.005	33.103	25.116	0.0634	0.0
30.0		10.345	33.307	25.572	0.0898	0.0
40.0		9.458	33.456	25.836	0.1129	0.0
50.0		8.852	33.621	26.062	0.1338	0.0
60.0		8.650	33.695	26.151	0.1532	0.0
80.0		8.342	33.836	26.309	0.1897	0.0
100.0		8.160	33.950	26.426	0.2235	0.0
150.0		7.740	34.021	26.543	0.3028	0.0
200.0		7.290	34.052	26.632	0.3776	0.0
250.0		6.822	34.085	26.722	0.4488	0.0
300.0		6.596	34.118	26.779	0.5168	0.0
400.0		6.055	34.199	26.913	0.6449	0.0
500.0		5.564	34.239	27.006	0.7638	0.0
600.0		5.181	34.281	27.085	0.8754	0.0
700.0		4.864	34.350	27.176	0.9788	0.0
800.0		4.378	34.369	27.244	1.0750	0.0
900.0		4.030	34.411	27.314	1.1653	0.0
1000.0		3.781	34.438	27.361	1.2506	0.0
1100.0		3.546	34.469	27.409	1.3318	0.0
1200.0		3.321	34.491	27.449	1.4091	0.0
1300.0		3.048	34.507	27.487	1.4832	0.0
1400.0		2.905	34.524	27.514	1.5541	0.0
1500.0		2.700	34.535	27.541	1.6225	0.0



Cruise W8905 Station # 35 Depth m: 1901 Time: 1989-05-07 20:15  
 Position: 39 6.40'N 124 15.10'W Depth Deck Offset: -0.23

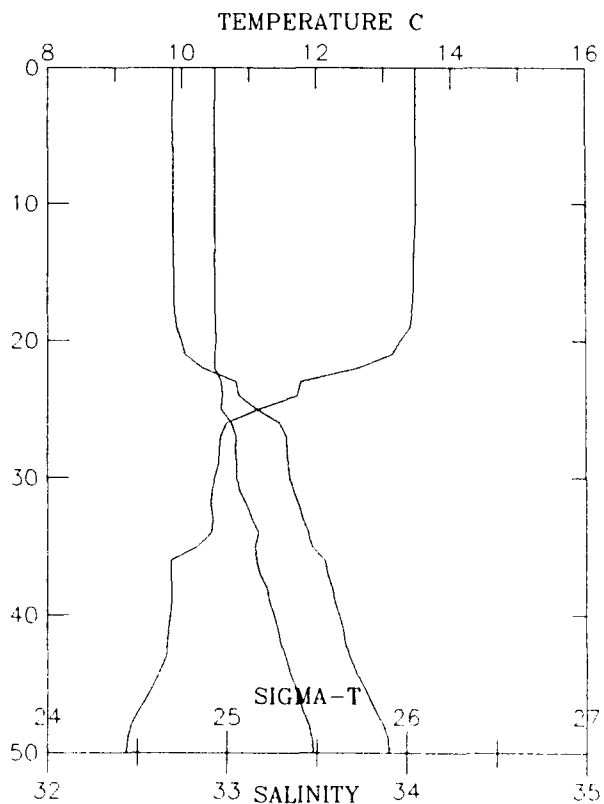
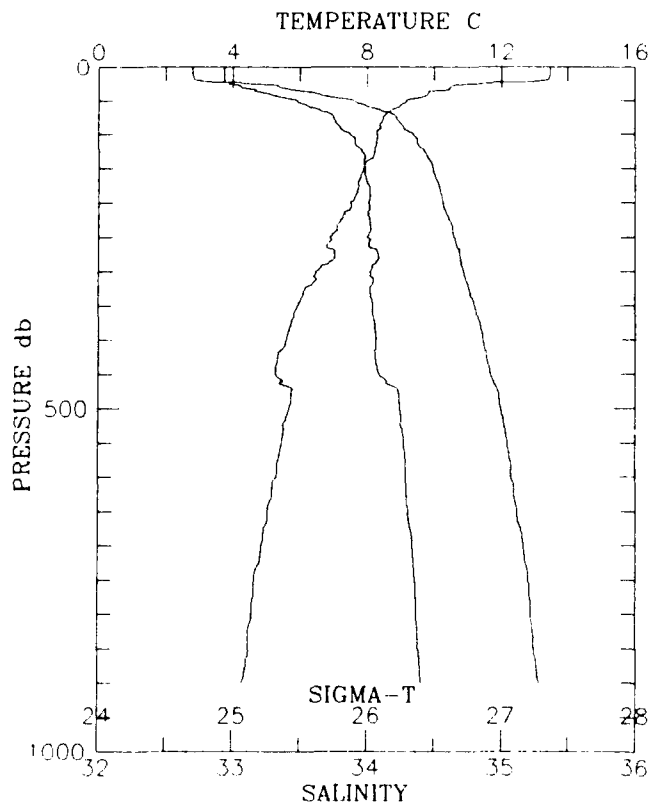
PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	13.549	32.945	24.692	0.0000	0.0
10.0		12.539	32.981	24.920	0.0317	0.0
20.0		10.720	33.061	25.315	0.0606	0.0
30.0		10.297	33.286	25.564	0.0862	0.0
40.0		9.553	33.441	25.809	0.1097	0.0
50.0		8.925	33.591	26.027	0.1307	0.0
60.0		8.665	33.689	26.144	0.1503	0.0
80.0		8.301	33.833	26.313	0.1868	0.0
100.0		8.235	33.921	26.392	0.2209	0.0
150.0		7.817	34.007	26.521	0.3019	0.0
200.0		7.384	34.050	26.617	0.3781	0.0
250.0		6.976	34.057	26.679	0.4511	0.0
300.0		6.623	34.081	26.746	0.5209	0.0
400.0		5.503	34.053	26.866	0.6523	0.0
500.0		5.169	34.142	26.976	0.7734	0.0
600.0		5.277	34.297	27.086	0.8854	0.0
700.0		4.826	34.329	27.164	0.9895	0.0
800.0		4.562	34.366	27.222	1.0882	0.0
900.0		4.179	34.395	27.286	1.1813	0.0
1000.0		3.783	34.432	27.356	1.2679	0.0
1100.0		3.570	34.461	27.401	1.3495	0.0
1200.0		3.331	34.476	27.436	1.4280	0.0
1300.0		3.121	34.493	27.469	1.5033	0.0
1400.0		2.953	34.508	27.497	1.5760	0.0
1500.0		2.698	34.529	27.536	1.6456	0.0
1501.0		2.698	34.529	27.536	1.6463	0.0





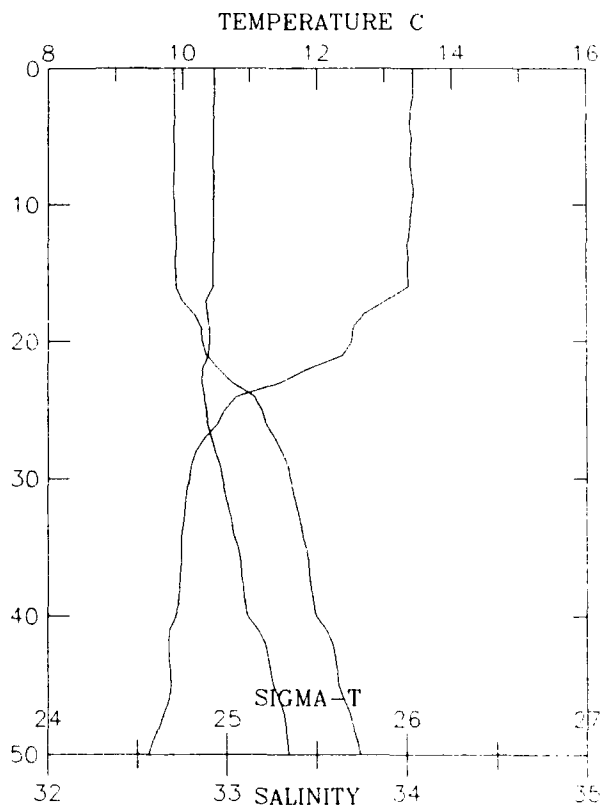
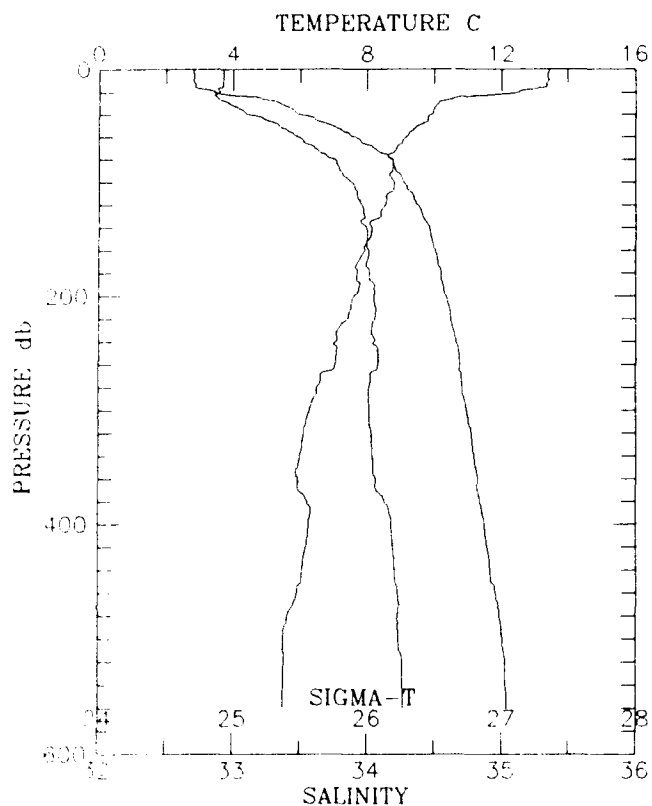
Cruise W8905 Station # 36 Depth m: 973 Time: 1989-05-07 21:40  
 Position: 39 7.60'N 124 8.60'W Depth Deck Offset: -0.20

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 13.476	32.937	24.701	0.0000	0.0
10.0	13.475	32.935	24.699	0.0327	0.0
20.0	13.246	32.939	24.749	0.0653	0.0
30.0	10.491	33.057	25.352	0.0940	0.0
40.0	9.829	33.266	25.627	0.1192	0.0
50.0	9.173	33.480	25.901	0.1419	0.0
60.0	8.947	33.571	26.008	0.1627	0.0
80.0	8.460	33.760	26.232	0.2005	0.0
100.0	8.306	33.873	26.344	0.2362	0.0
150.0	7.889	33.981	26.490	0.3189	0.0
200.0	7.498	34.007	26.567	0.3968	0.0
250.0	6.890	34.000	26.646	0.4713	0.0
300.0	6.485	34.025	26.720	0.5424	0.0
400.0	5.595	34.066	26.865	0.6746	0.0
500.0	5.676	34.246	26.998	0.7953	0.0
600.0	5.320	34.292	27.077	0.9065	0.0
700.0	4.858	34.339	27.168	1.0112	0.0
800.0	4.584	34.371	27.223	1.1090	0.0
900.0	4.289	34.403	27.281	1.2029	0.0
901.0	4.289	34.402	27.280	1.2038	0.0



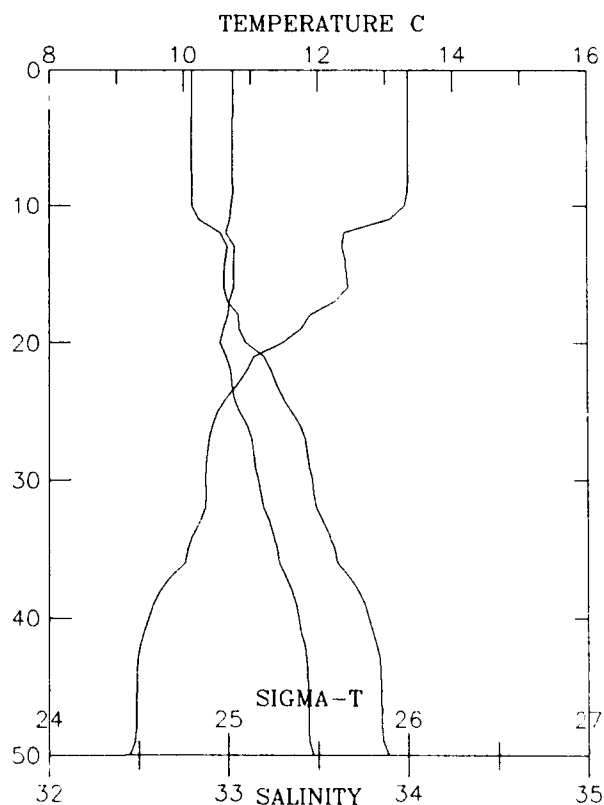
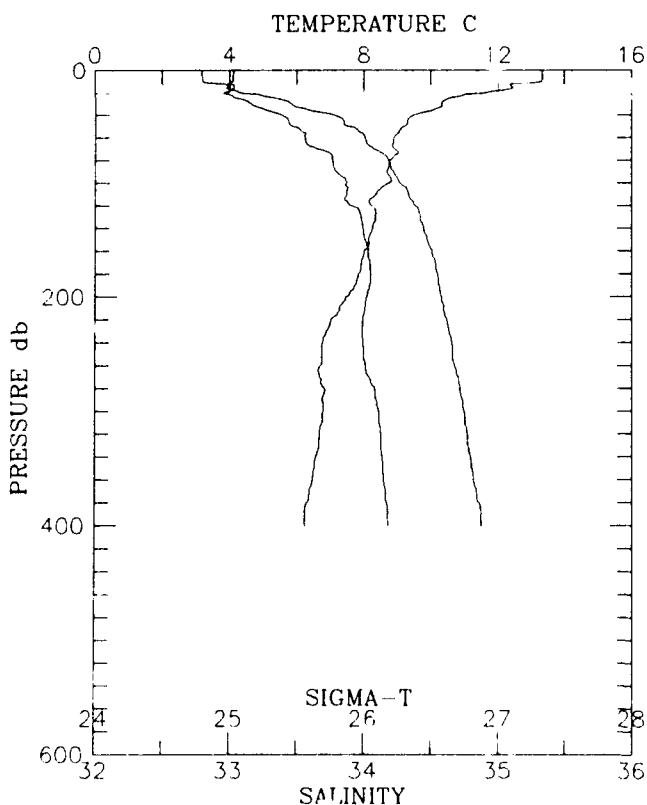
Cruise W8905 Station # 37 Depth m: 575 Time: 1989-05-07 22:47  
 Position: 39 8.20'N 124 2.50'W Depth Deck Offset: -0.20

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA T	DELTA-D	CHANNELA (%light)
0.0	E 13.427	32.929	24.704	0.0000	0.0
10.0	13.409	32.924	24.704	0.0326	0.0
20.0	12.514	32.899	24.861	0.0649	0.0
30.0	10.103	32.972	25.352	0.0934	0.0
40.0	9.903	33.116	25.497	0.1192	0.0
50.0	9.500	33.344	25.742	0.1431	0.0
60.0	9.138	33.494	25.917	0.1651	0.0
80.0	8.754	33.767	26.192	0.2050	0.0
100.0	8.807	33.882	26.274	0.2417	0.0
150.0	8.031	33.999	26.484	0.3257	0.0
200.0	7.596	34.051	26.587	0.4034	0.0
250.0	7.076	34.076	26.681	0.4769	0.0
300.0	6.259	34.013	26.740	0.5472	0.0
400.0	6.246	34.179	26.873	0.6789	0.0
500.0	5.518	34.233	27.006	0.7993	0.0
560.0	5.493	34.265	27.035	0.8670	0.0



Cruise W8905 Station # 38 Depth m: 415 Time: 1989-05-07 23:33  
 Position: 39 8.70'N 123 59.20'W Depth Deck Offset: -0.35

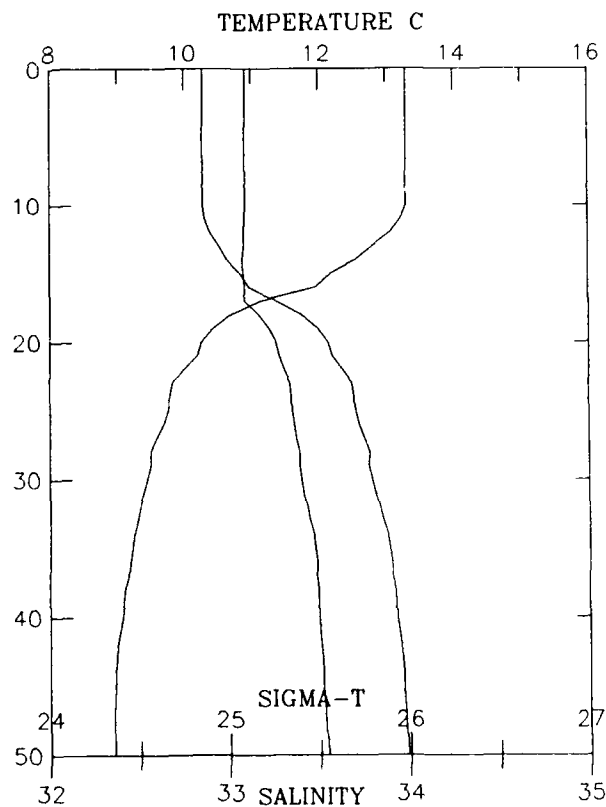
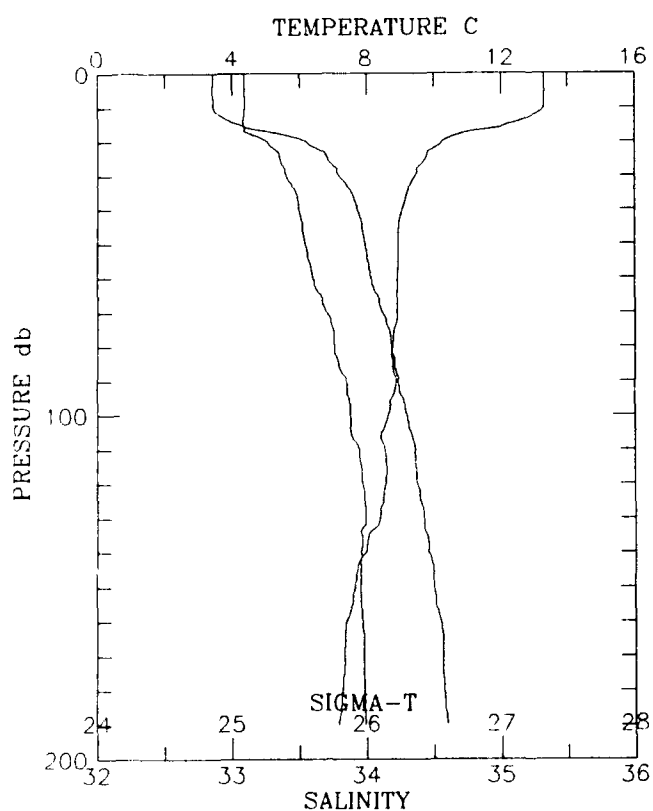
PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	13.343	33.028	24.798	0.0000	0.0
10.0		13.295	33.016	24.798	0.0318	0.0
20.0		11.477	32.953	25.096	0.0618	0.0
30.0		10.322	33.166	25.466	0.0885	0.0
40.0		9.476	33.390	25.782	0.1127	0.0
50.0		9.195	33.472	25.891	0.1346	0.0
60.0		8.895	33.563	26.010	0.1553	0.0
80.0		8.768	33.768	26.190	0.1945	0.0
100.0		8.763	33.871	26.272	0.2312	0.0
150.0		8.147	34.010	26.475	0.3152	0.0
200.0		7.477	34.023	26.583	0.3929	0.0
250.0		6.752	33.998	26.663	0.4665	0.0
300.0		6.786	34.113	26.749	0.5366	0.0
400.0		6.241	34.184	26.877	0.6680	0.0
401.0		6.242	34.183	26.876	0.6692	0.0



Cruise W8905 Station # 39 Depth m: 208 Time: 1989-05-08 00:12  
 Position: 39 9.10'N 123 56.90'W Depth Deck Offset: -0.30

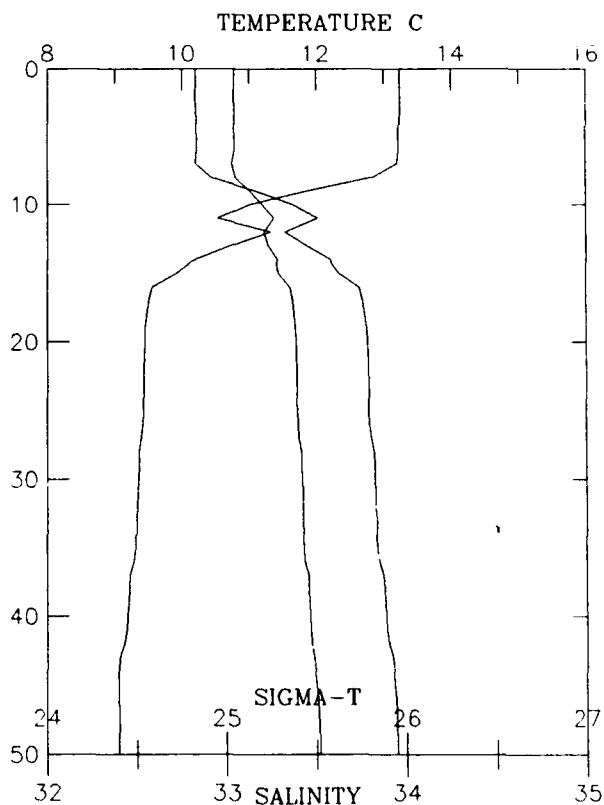
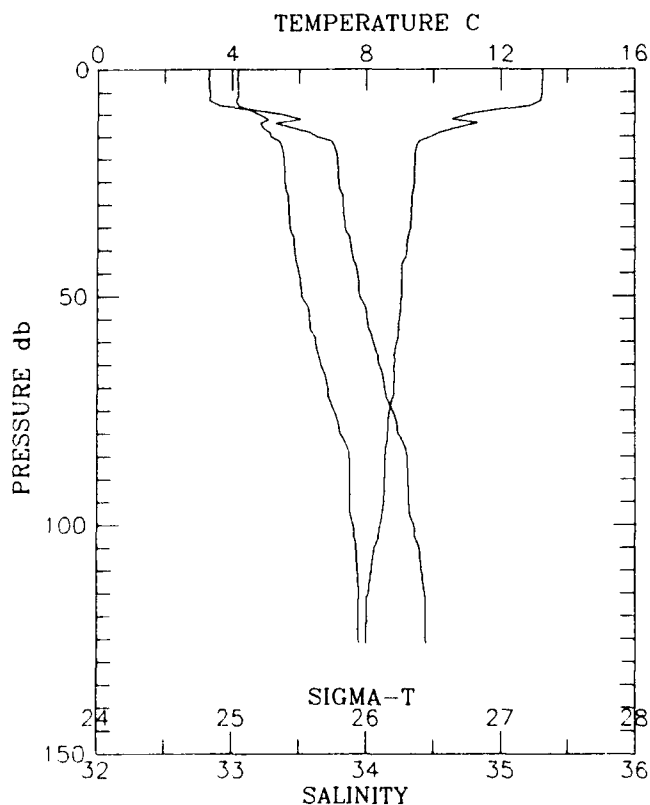
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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0.0	E	13.297	33.094	24.858	0.0000
10.0		13.301	33.093	24.857	0.0312
20.0		10.255	33.261	25.551	0.0599
30.0		9.447	33.402	25.796	0.0831
40.0		9.069	33.497	25.931	0.1046
50.0		8.945	33.545	25.988	0.1253
60.0		8.935	33.601	26.034	0.1457
70.0		8.901	33.697	26.114	0.1654
80.0		8.770	33.760	26.184	0.1843
90.0		8.892	33.854	26.238	0.2028
100.0		8.633	33.880	26.299	0.2208
110.0		8.549	33.944	26.362	0.2382
120.0		8.569	33.970	26.380	0.2552
130.0		8.383	33.991	26.425	0.2719
140.0		7.985	33.957	26.457	0.2883
150.0		7.656	33.957	26.505	0.3042
160.0		7.397	33.971	26.553	0.3198
170.0		7.344	33.979	26.567	0.3351
180.0		7.287	33.982	26.577	0.3503
190.0		7.175	33.991	26.600	0.3653



Cruise W8905 Station # 40 Depth m: 130 Time: 1989-05-08 00:47  
 Position: 39 9.40'N 123 54.00'W Depth Deck Offset: -0.25

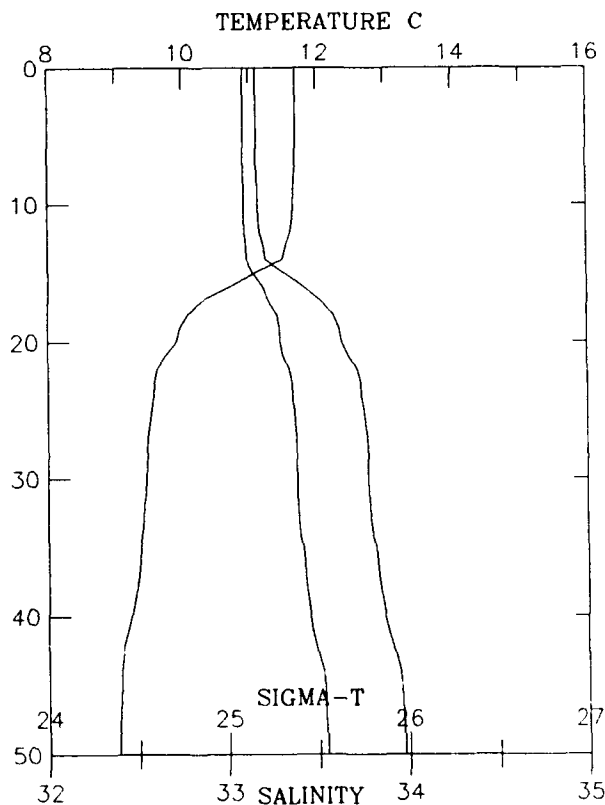
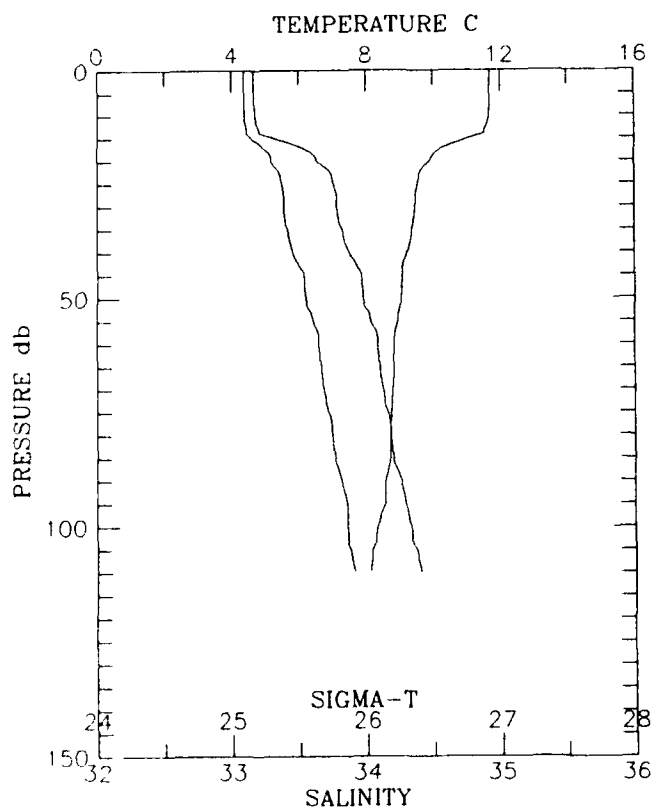
PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	13.248	33.041	24.827	0.0000	0.0
10.0		11.018	33.198	25.370	0.0308	0.0
20.0		9.445	33.387	25.784	0.0548	0.0
30.0		9.350	33.420	25.826	0.0771	0.0
40.0		9.192	33.465	25.886	0.0989	0.0
50.0		9.063	33.519	25.949	0.1200	0.0
60.0		8.913	33.621	26.052	0.1404	0.0
70.0		8.819	33.710	26.137	0.1599	0.0
80.0		8.646	33.803	26.237	0.1785	0.0
90.0		8.545	33.878	26.311	0.1962	0.0
100.0		8.404	33.903	26.352	0.2137	0.0
110.0		8.176	33.937	26.413	0.2305	0.0
120.0		8.009	33.942	26.442	0.2469	0.0
126.0		8.002	33.944	26.444	0.2567	0.0



Cruise W8905 Station # 41 Depth m: 117 Time: 1989-05-08 01:15  
 Position: 39 9.70'N 123 51.30'W Depth Deck Offset: -0.30

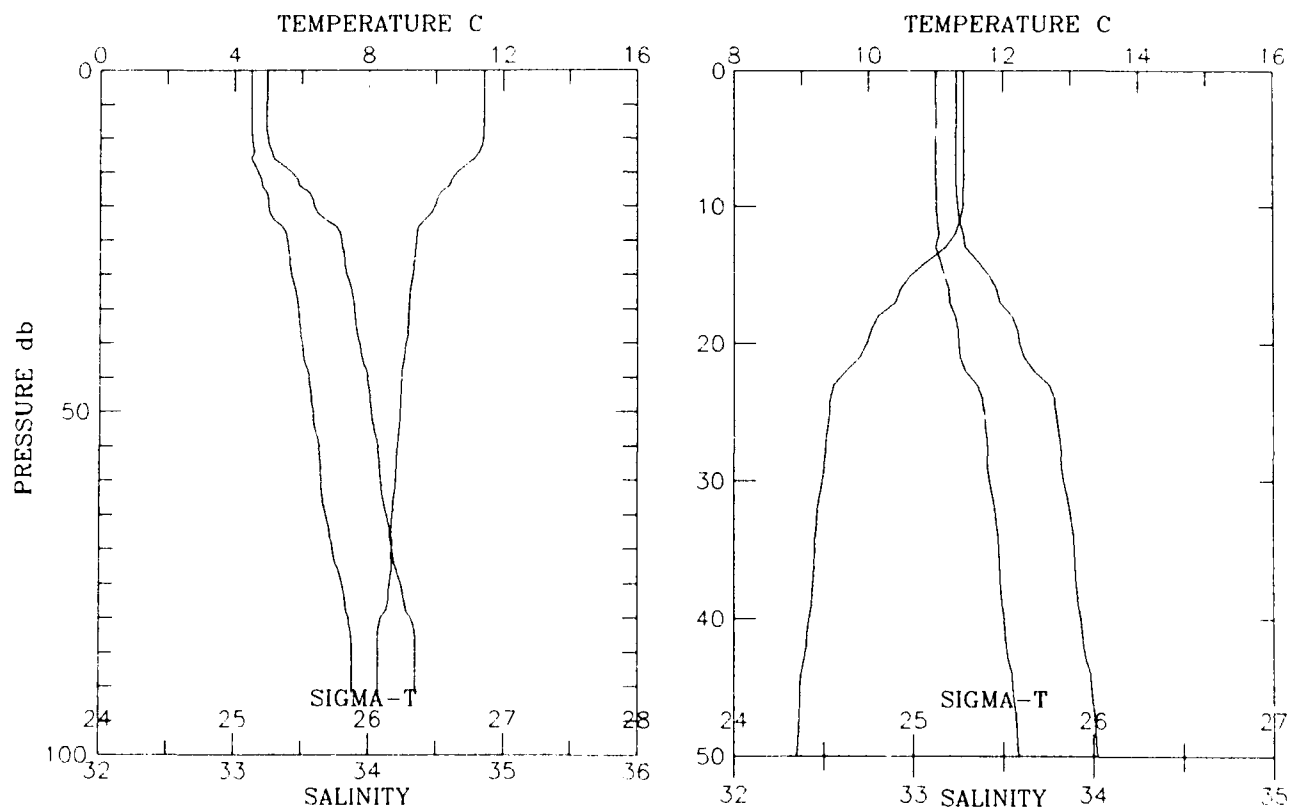
PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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0.0	E	11.701	33.095	25.166	0.0000	0.0
10.0		11.655	33.096	25.175	0.0282	0.0
20.0		9.917	33.298	25.637	0.0546	0.0
30.0		9.459	33.387	25.782	0.0774	0.0
40.0		9.230	33.456	25.873	0.0995	0.0
50.0		9.030	33.546	25.975	0.1204	0.0
60.0		8.839	33.646	26.084	0.1405	0.0
70.0		8.780	33.685	26.124	0.1600	0.0
80.0		8.713	33.747	26.182	0.1790	0.0
90.0		8.558	33.816	26.260	0.1975	0.0
100.0		8.325	33.861	26.331	0.2152	0.0
110.0		8.101	33.909	26.402	0.2323	0.0



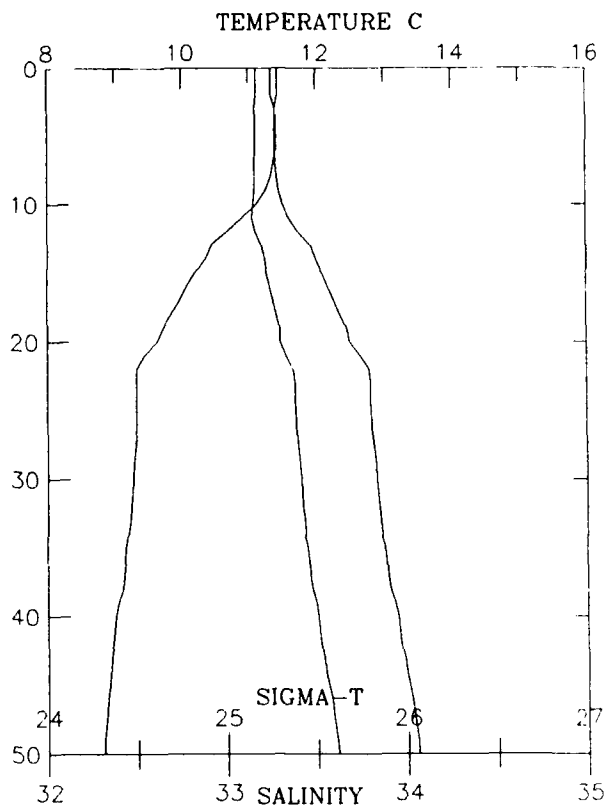
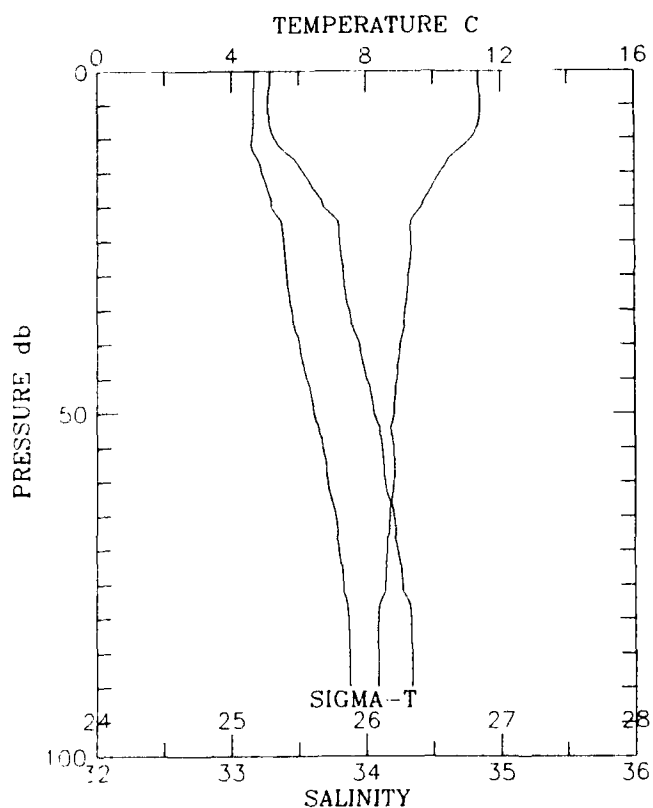
Cruise W8905 Station # 42 Depth m: 104 Time: 1989-05-08 01:45  
 Position: 39 10.00'N 123 48.50'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	11.424	33.128	25.242	0.0000
5.0		11.423	33.126	25.240	0.0138
10.0		11.406	33.131	25.248	0.0275
15.0		10.636	33.175	25.419	0.0410
20.0		9.974	33.253	25.593	0.0535
25.0		9.419	33.394	25.794	0.0651
30.0		9.315	33.423	25.834	0.0761
35.0		9.194	33.475	25.894	0.0869
40.0		9.108	33.504	25.930	0.0976
45.0		8.978	33.551	25.988	0.1080
50.0		8.932	33.585	26.021	0.1182
55.0		8.851	33.629	26.069	0.1282
60.0		8.803	33.649	26.092	0.1380
65.0		8.714	33.686	26.135	0.1477
70.0		8.696	33.733	26.174	0.1572
75.0		8.626	33.807	26.243	0.1665
80.0		8.372	33.851	26.316	0.1754
85.0		8.279	33.877	26.351	0.1840
90.0		8.281	33.877	26.351	0.1926
91.0		8.281	33.877	26.351	0.1943



Cruise W8905 Station # 43 Depth m: 97 Time: 1989-05-08 02:05  
 Position: 39 10.30'N 123 48.00'W Depth Deck Offset: -0.43

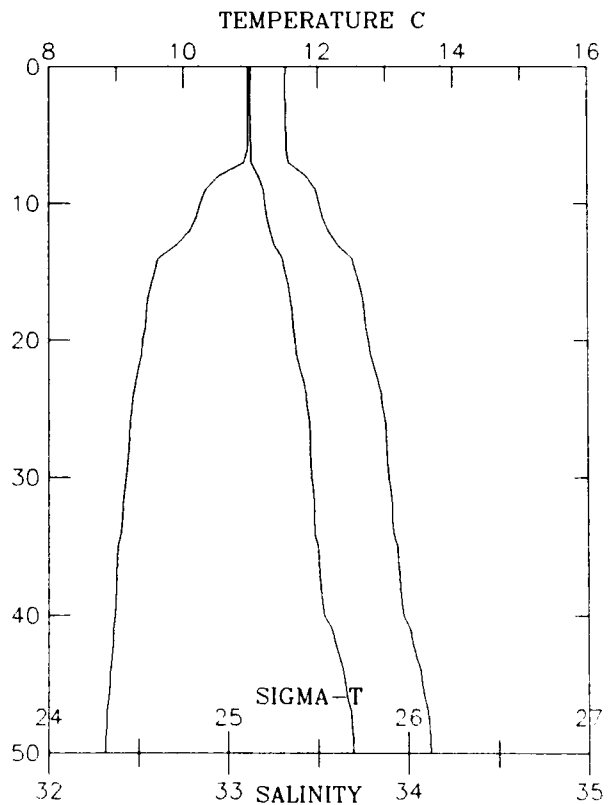
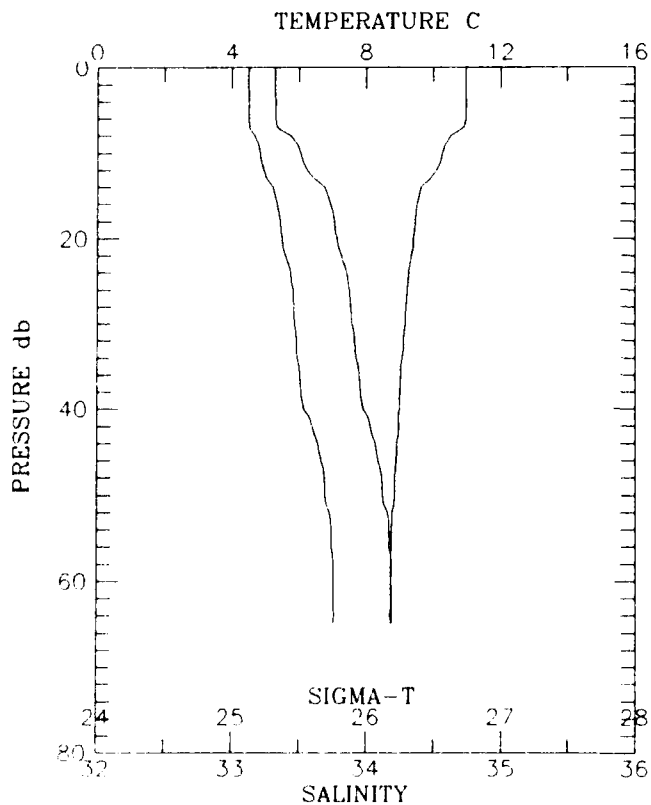
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	11.344	33.168	25.288	0.0000
5.0		11.406	33.163	25.272	0.0136
10.0		11.119	33.151	25.315	0.0271
15.0		10.193	33.225	25.534	0.0400
20.0		9.639	33.297	25.683	0.0520
25.0		9.325	33.386	25.803	0.0633
30.0		9.263	33.412	25.833	0.0744
35.0		9.164	33.449	25.878	0.0853
40.0		9.000	33.506	25.949	0.0959
45.0		8.907	33.560	26.006	0.1062
50.0		8.829	33.612	26.059	0.1163
55.0		8.800	33.676	26.113	0.1260
60.0		8.818	33.711	26.138	0.1356
65.0		8.692	33.769	26.203	0.1450
70.0		8.635	33.800	26.236	0.1542
75.0		8.564	33.828	26.269	0.1632
80.0		8.359	33.867	26.331	0.1720
85.0		8.349	33.873	26.337	0.1807
90.0		8.349	33.877	26.340	0.1893





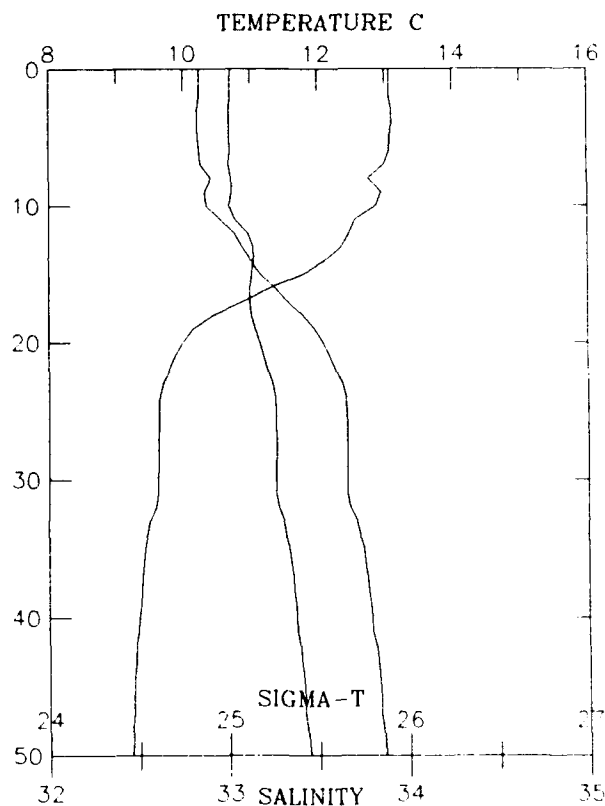
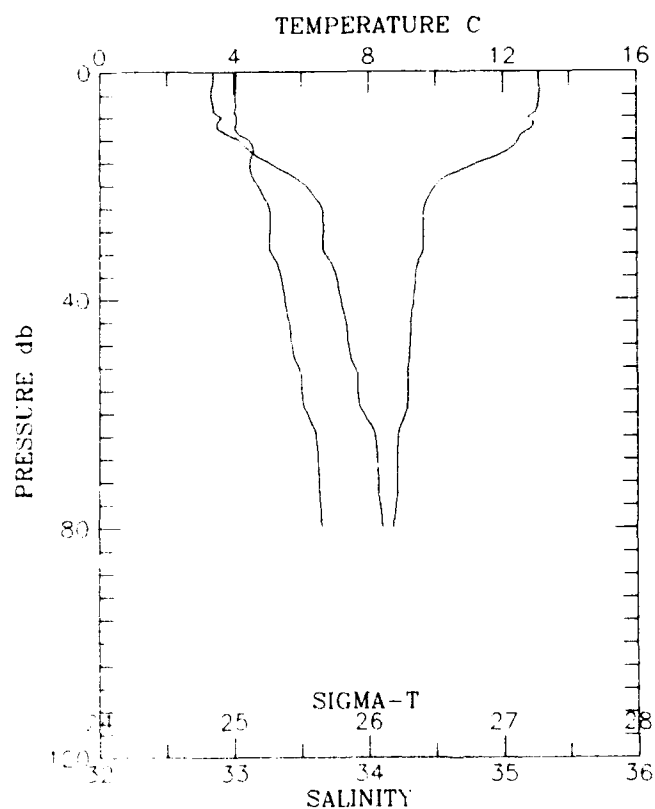
Cruise W8905 Station # 44 Depth m: 68 Time: 1989-05-08 02:27  
 Position: 39 10.50'N 123 46.90'W Depth Deck Offset: -0.43

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.969	33.124	25.321	0.0000	0.0
5.0		10.963	33.127	25.324	0.0134	0.0
10.0		10.262	33.207	25.508	0.0264	0.0
15.0		9.573	33.320	25.711	0.0385	0.0
20.0		9.390	33.372	25.782	0.0498	0.0
25.0		9.238	33.443	25.862	0.0609	0.0
30.0		9.150	33.465	25.893	0.0716	0.0
35.0		9.021	33.501	25.942	0.0822	0.0
40.0		8.981	33.534	25.974	0.0926	0.0
45.0		8.907	33.648	26.075	0.1027	0.0
50.0		8.842	33.695	26.122	0.1124	0.0
55.0		8.760	33.741	26.171	0.1219	0.0
60.0		8.729	33.754	26.185	0.1312	0.0
65.0		8.725	33.758	26.189	0.1405	0.0



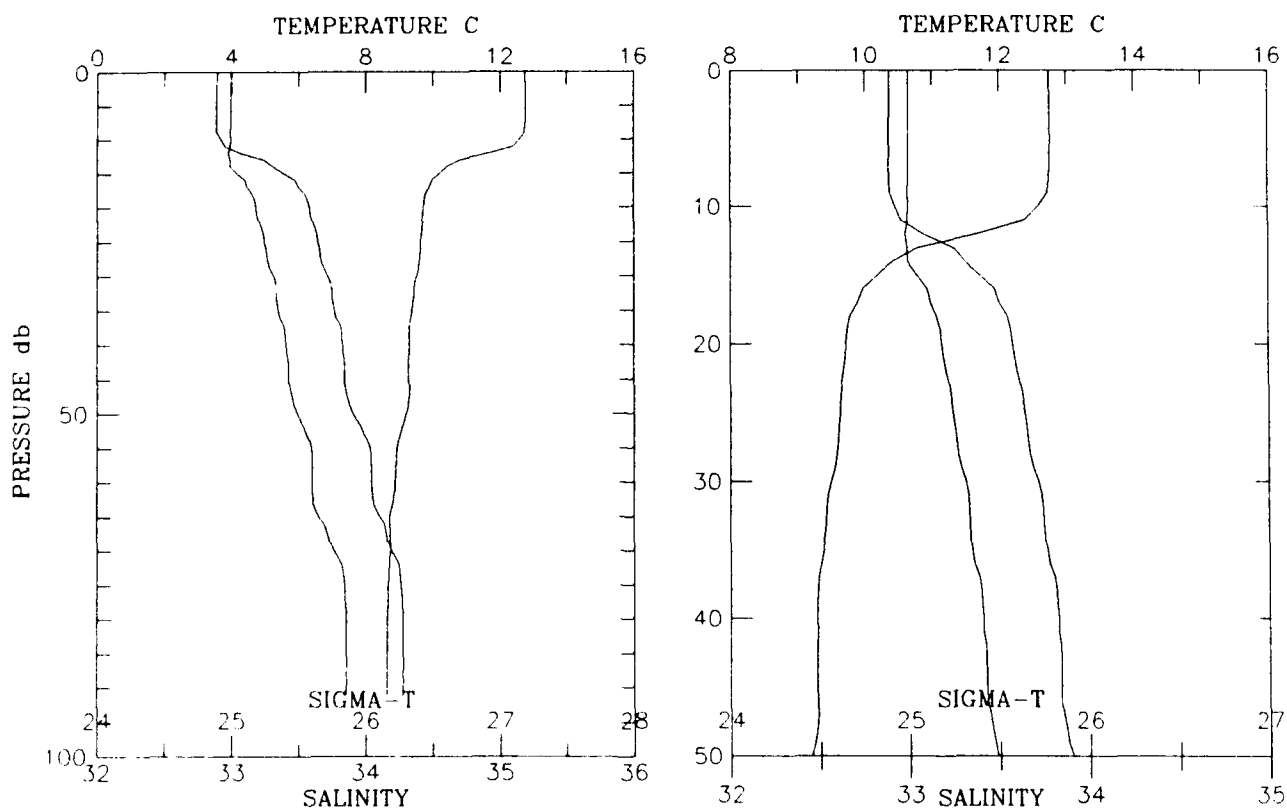
Cruise W8905 Station # 45 Depth m: 95 Time: 1989-05-08 03:27  
 Position: 39 3.50'N 123 48.50'W Depth Deck Offset: -0.43

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	13.072	33.016	24.843	0.0000
5.0		13.082	33.011	24.837	0.0157
10.0		12.862	33.007	24.877	0.0312
15.0		11.790	33.133	25.179	0.0460
20.0		9.994	33.176	25.529	0.0591
25.0		9.638	33.265	25.658	0.0712
30.0		9.622	33.264	25.660	0.0830
35.0		9.418	33.338	25.751	0.0946
40.0		9.338	33.378	25.795	0.1059
45.0		9.253	33.416	25.838	0.1169
50.0		9.220	33.445	25.866	0.1279
55.0		9.161	33.499	25.918	0.1385
60.0		9.088	33.544	25.965	0.1491
65.0		8.860	33.611	26.053	0.1592
70.0		8.844	33.627	26.068	0.1691
75.0		8.840	33.636	26.076	0.1790
80.0		8.751	33.664	26.112	0.1888



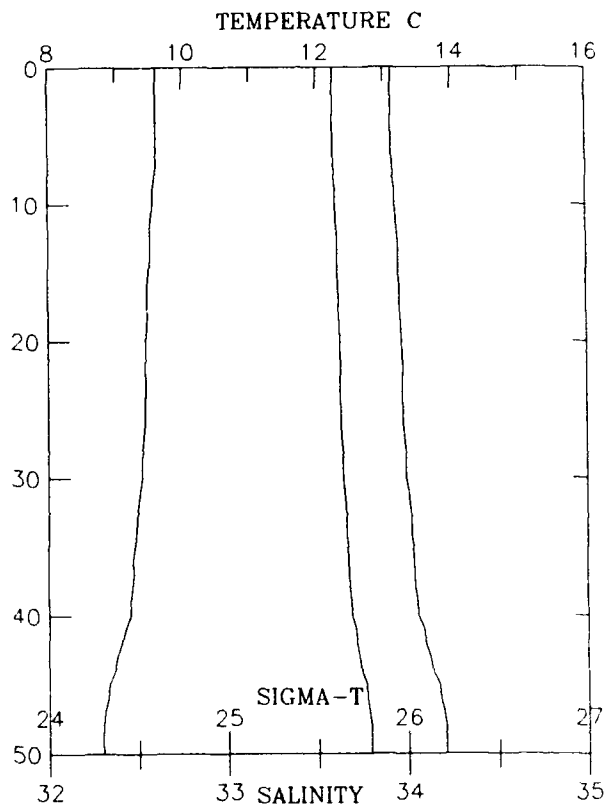
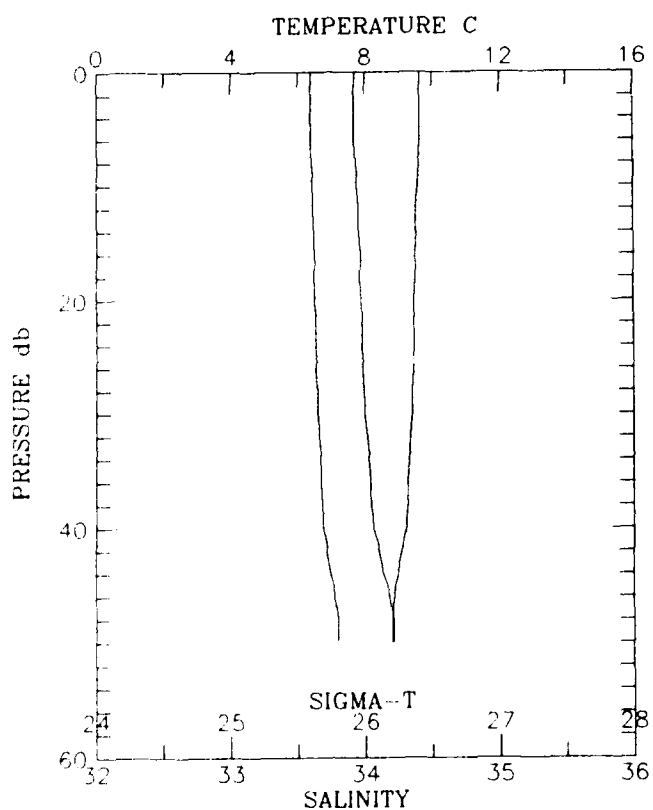
Cruise W8905 Station # 46 Depth m: 101 Time: 1989-05-08 04:17  
 Position: 38 56.90'N 123 48.50'W Depth Deck Offset: -0.43

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	12.750	32.996	24.891	0.0000	0.0
5.0		12.764	32.995	24.887	0.0154	0.0
10.0		12.589	32.995	24.921	0.0309	0.0
15.0		10.194	33.043	25.392	0.0451	0.0
20.0		9.725	33.182	25.579	0.0576	0.0
25.0		9.634	33.244	25.642	0.0696	0.0
30.0		9.501	33.314	25.718	0.0814	0.0
35.0		9.378	33.350	25.766	0.0927	0.0
40.0		9.290	33.409	25.827	0.1039	0.0
45.0		9.285	33.428	25.843	0.1149	0.0
50.0		9.198	33.488	25.904	0.1257	0.0
55.0		8.921	33.594	26.030	0.1360	0.0
60.0		8.876	33.603	26.044	0.1461	0.0
65.0		8.714	33.650	26.107	0.1560	0.0
70.0		8.731	33.761	26.191	0.1655	0.0
75.0		8.662	33.841	26.264	0.1746	0.0
80.0		8.645	33.853	26.276	0.1835	0.0
85.0		8.641	33.855	26.278	0.1924	0.0
90.0		8.640	33.855	26.278	0.2014	0.0
91.0		8.641	33.855	26.278	0.2032	0.0



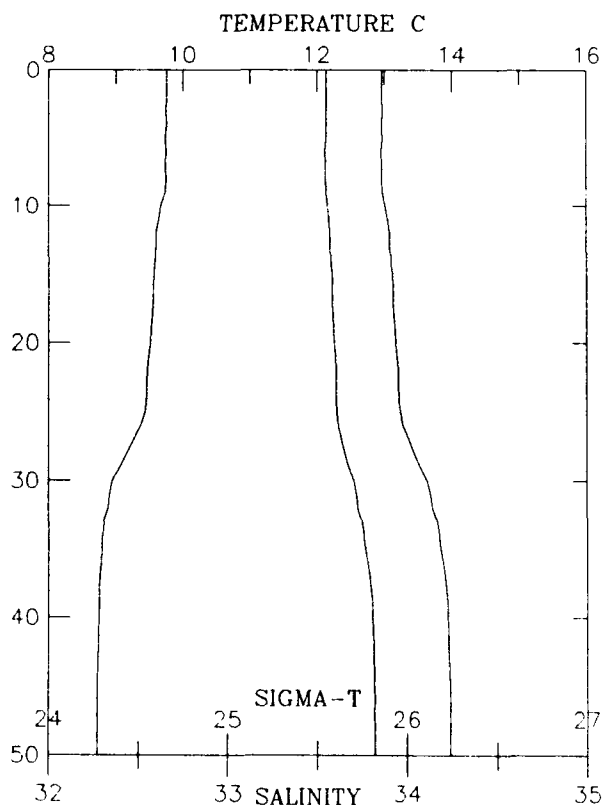
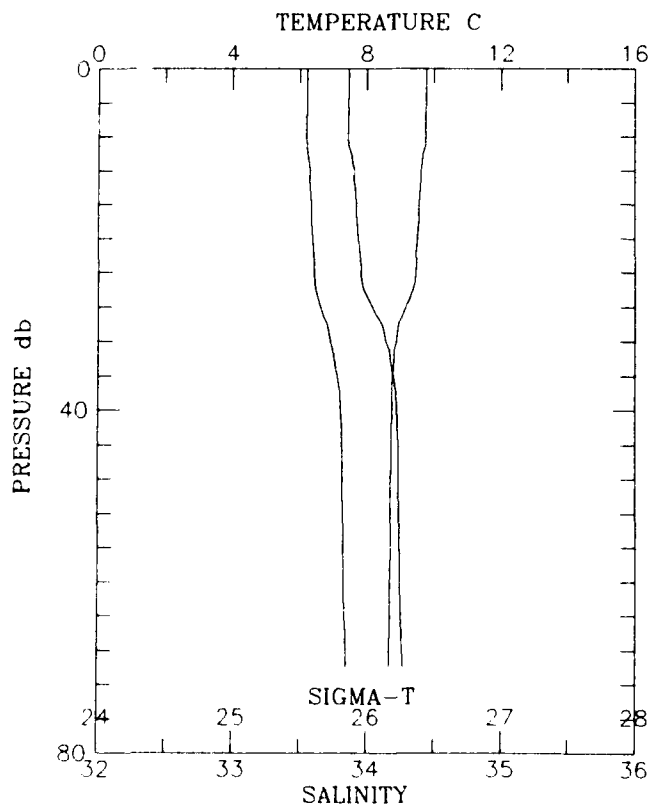
Cruise W8905 Station # 47 Depth m: 61 Time: 1989-05-08 05:20  
 Position: 38 51.30'N 123 41.60'W Depth Deck Offset: -0.43

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.620	33.597	25.920	0.0000	0.0
5.0		9.615	33.595	25.919	0.0105	0.0
10.0		9.564	33.606	25.936	0.0211	0.0
15.0		9.496	33.618	25.957	0.0315	0.0
20.0		9.455	33.628	25.971	0.0418	0.0
25.0		9.437	33.633	25.978	0.0521	0.0
30.0		9.392	33.643	25.993	0.0624	0.0
35.0		9.283	33.668	26.031	0.0725	0.0
40.0		9.211	33.685	26.055	0.0825	0.0
45.0		8.888	33.765	26.169	0.0922	0.0
50.0		8.796	33.794	26.206	0.1015	0.0



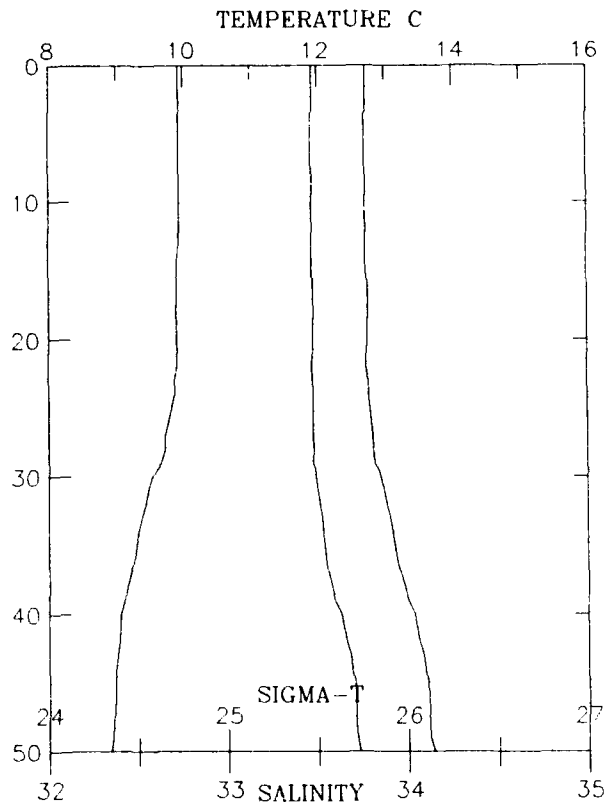
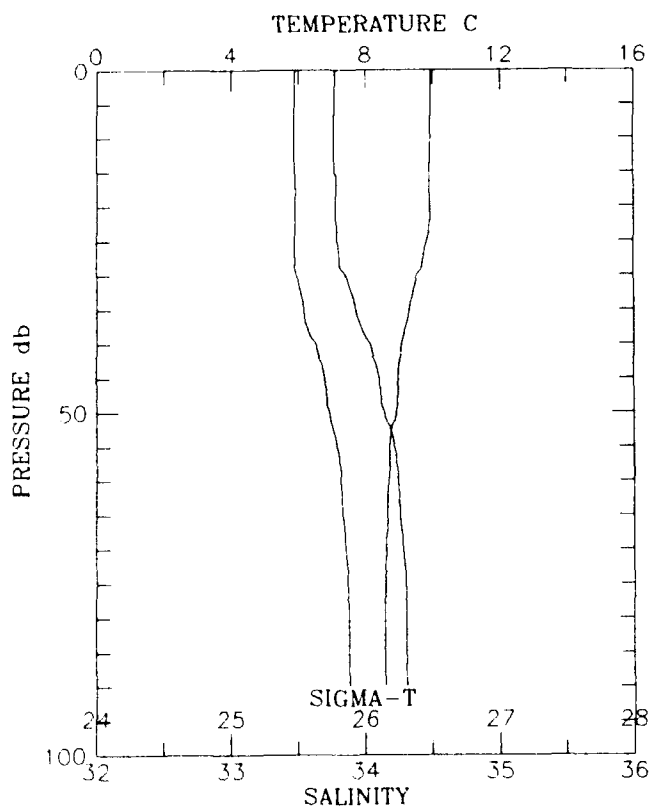
Cruise W8905 Station # 48 Depth m: 75 Time: 1989-05-08 05:41  
 Position: 38 51.00'N 123 42.40'W Depth Deck Offset: -0.35

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.757	33.552	25.862	0.0000
5.0		9.741	33.551	25.864	0.0108
10.0		9.671	33.558	25.881	0.0216
15.0		9.565	33.583	25.918	0.0323
20.0		9.516	33.595	25.936	0.0428
25.0		9.438	33.611	25.961	0.0532
30.0		8.948	33.704	26.112	0.0633
35.0		8.792	33.765	26.184	0.0727
40.0		8.746	33.807	26.224	0.0819
45.0		8.726	33.819	26.237	0.0910
50.0		8.720	33.821	26.239	0.1001
55.0		8.711	33.824	26.243	0.1092
60.0		8.704	33.830	26.249	0.1182
65.0		8.694	33.838	26.257	0.1273
70.0		8.674	33.849	26.269	0.1362



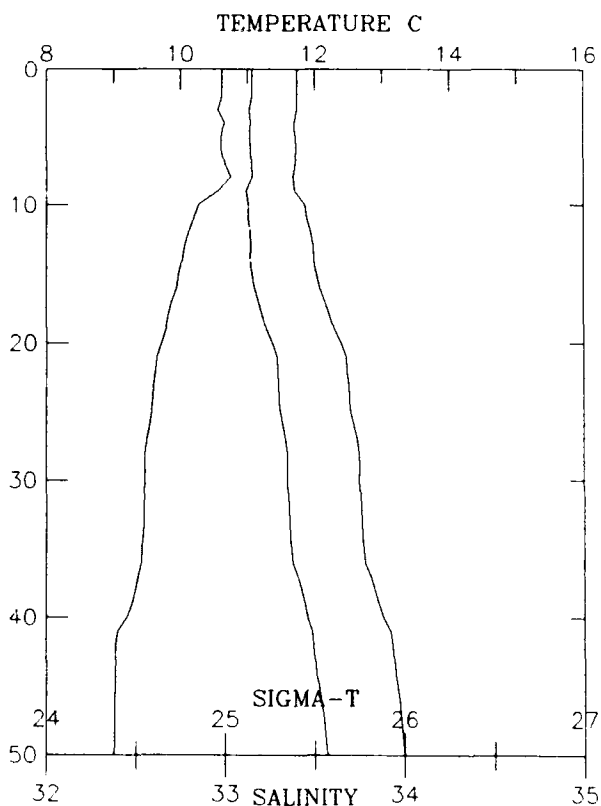
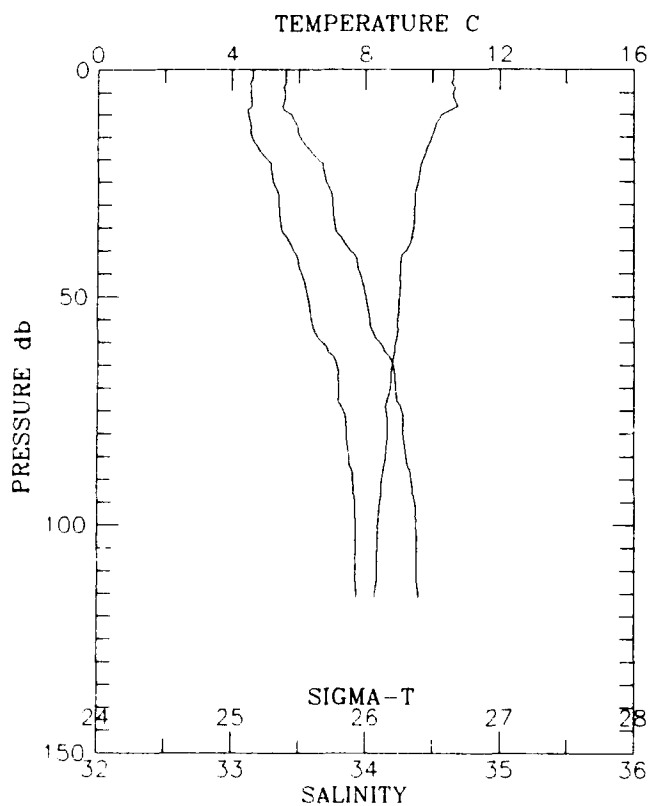
Cruise W8905 Station # 49 Depth m: 98 Time: 1989-05-08 06:08  
 Position: 38 50.00'N 123 43.60'W Depth Deck Offset: -0.35

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.941	33.473	25.770	0.0000
5.0		9.944	33.469	25.766	0.0113
10.0		9.948	33.470	25.766	0.0225
15.0		9.921	33.473	25.773	0.0338
20.0		9.911	33.476	25.777	0.0450
25.0		9.831	33.475	25.790	0.0563
30.0		9.537	33.491	25.851	0.0673
35.0		9.303	33.538	25.926	0.0781
40.0		9.065	33.629	26.035	0.0884
45.0		8.977	33.701	26.105	0.0983
50.0		8.913	33.731	26.139	0.1079
55.0		8.718	33.788	26.214	0.1173
60.0		8.692	33.816	26.240	0.1264
65.0		8.658	33.830	26.256	0.1354
70.0		8.620	33.854	26.281	0.1444
75.0		8.582	33.865	26.295	0.1532
80.0		8.575	33.876	26.305	0.1620
85.0		8.571	33.878	26.307	0.1708
90.0		8.573	33.878	26.307	0.1796



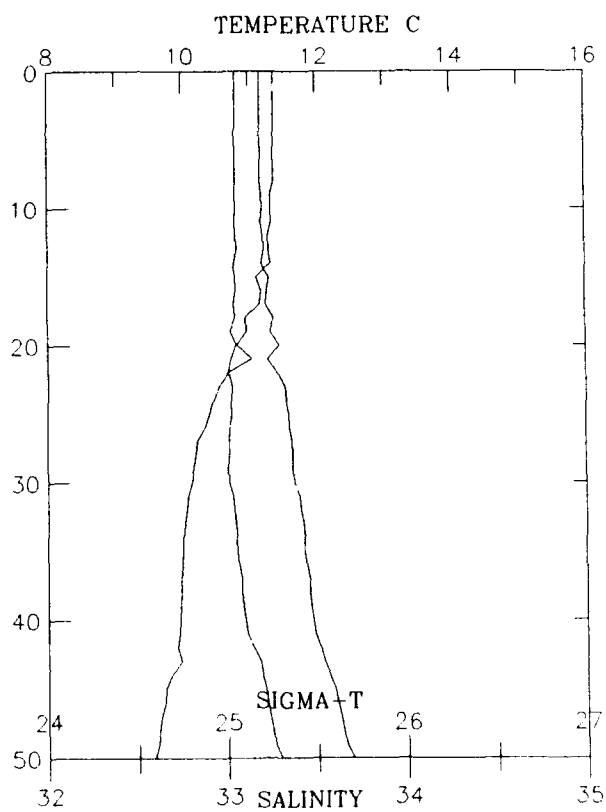
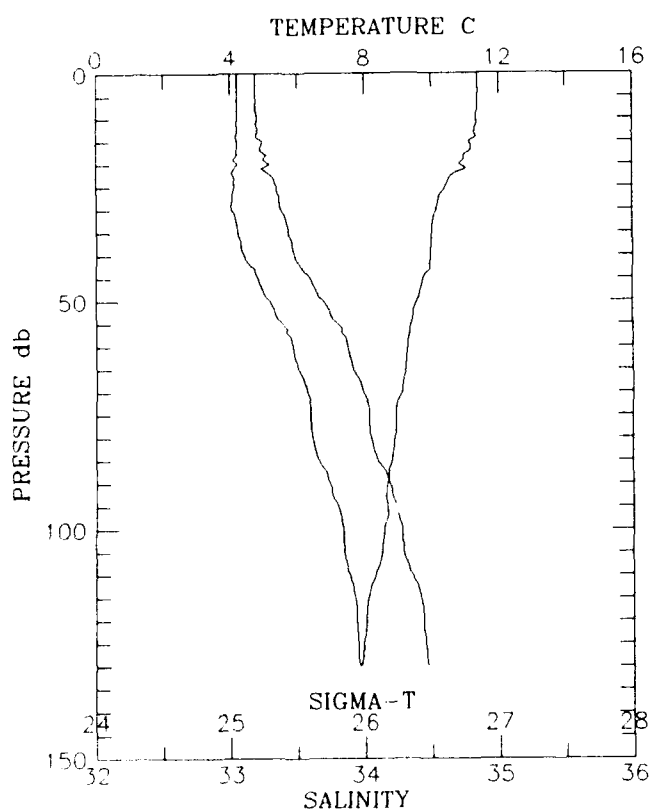
Cruise W8905 Station # 50 Depth m: 127 Time: 1989-05-08 06:42  
 Position: 38 48.30'N 123 45.50'W Depth Deck Offset: -0.35

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.622	33.153	25.404	0.0000	0.0
10.0		10.271	33.128	25.445	0.0260	0.0
20.0		9.714	33.265	25.645	0.0509	0.0
30.0		9.471	33.348	25.750	0.0740	0.0
40.0		9.198	33.461	25.882	0.0964	0.0
50.0		9.000	33.570	25.999	0.1172	0.0
60.0		8.873	33.676	26.102	0.1373	0.0
70.0		8.714	33.795	26.220	0.1560	0.0
80.0		8.633	33.853	26.278	0.1741	0.0
90.0		8.485	33.903	26.339	0.1917	0.0
100.0		8.354	33.921	26.373	0.2088	0.0
110.0		8.326	33.923	26.379	0.2257	0.0
116.0		8.267	33.928	26.392	0.2358	0.0



Cruise W8905 Station # 51 Depth m: 136 Time: 1989-05-08 07:20  
 Position: 38 46.90'N 123 47.10'W Depth Deck Offset: -0.35

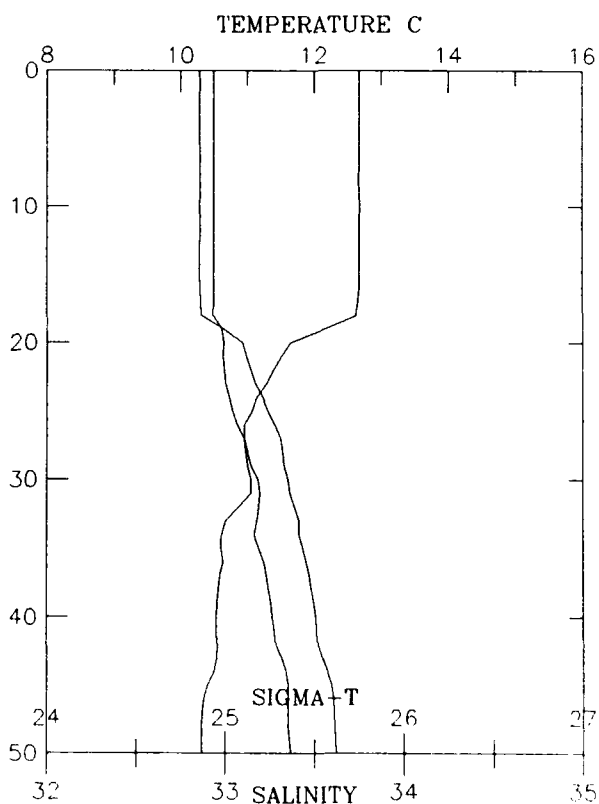
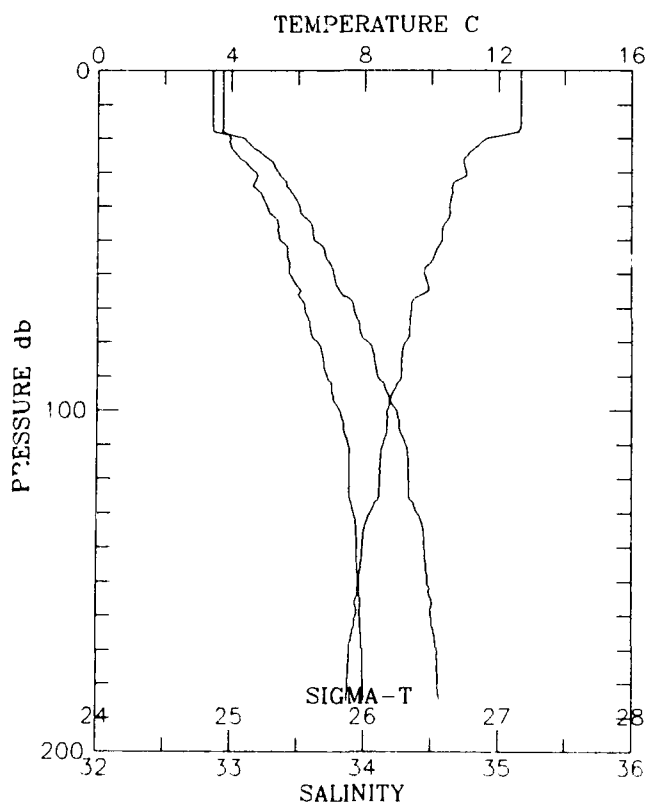
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 11.382	33.054	25.192	0.0000	0.0
10.0	11.327	33.053	25.201	0.0280	0.0
20.0	10.823	33.055	25.293	0.0557	0.0
30.0	10.138	33.008	25.374	0.0825	0.0
40.0	9.955	33.099	25.476	0.1082	0.0
50.0	9.566	33.294	25.692	0.1326	0.0
60.0	9.269	33.465	25.874	0.1550	0.0
70.0	9.100	33.569	25.982	0.1762	0.0
80.0	8.897	33.610	26.047	0.1964	0.0
90.0	8.656	33.737	26.184	0.2159	0.0
100.0	8.567	33.838	26.276	0.2342	0.0
110.0	8.308	33.885	26.352	0.2518	0.0
120.0	8.033	33.938	26.435	0.2685	0.0
130.0	7.886	33.958	26.472	0.2848	0.0





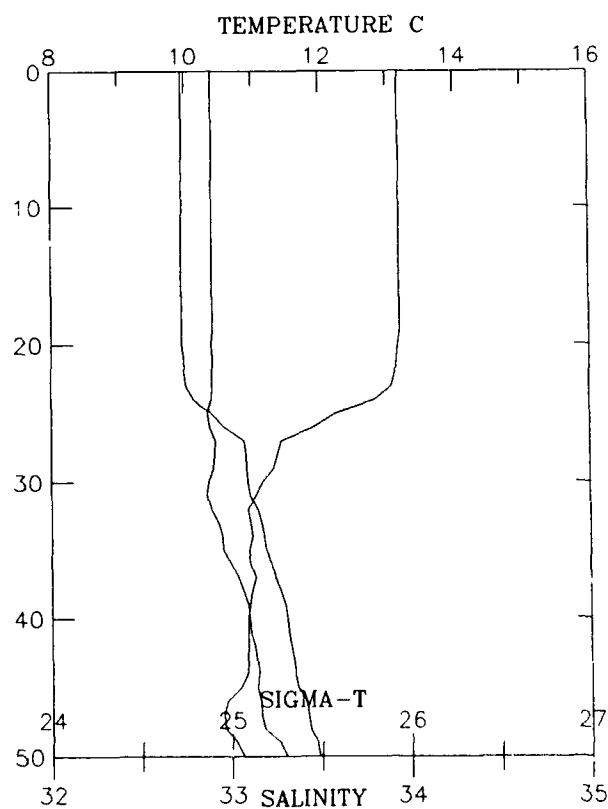
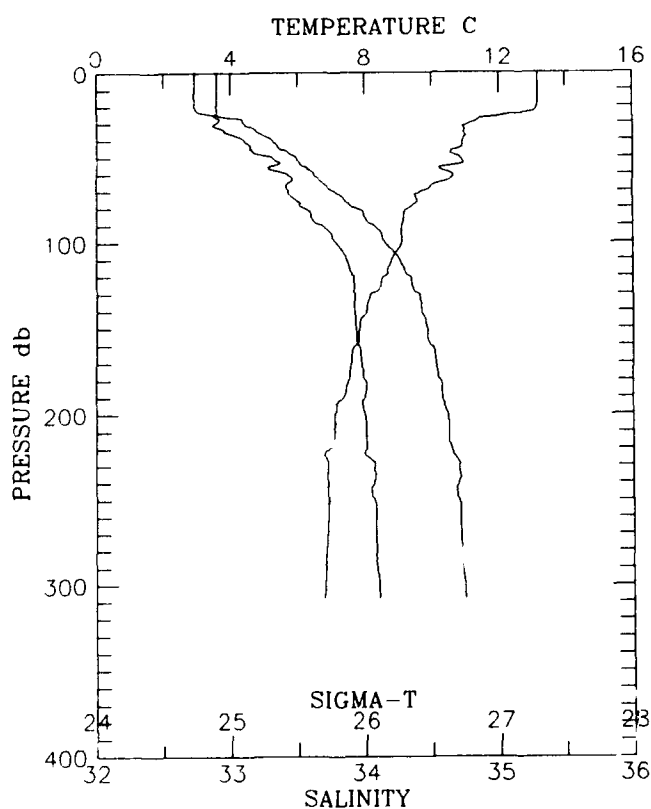
Cruise W8905 Station # 52 Depth m: 190 Time: 1989-05-08 07:48  
 Position: 38 45.90'N 123 48.70'W Depth Deck Offset: -0.35

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	12.675	32.937	24.859	0.0000	0.0
10.0		12.678	32.936	24.858	0.0312	0.0
20.0		11.646	32.993	25.097	0.0621	0.0
30.0		11.051	33.184	25.353	0.0898	0.0
40.0		10.538	33.266	25.507	0.1155	0.0
50.0		10.319	33.365	25.622	0.1400	0.0
60.0		9.786	33.437	25.768	0.1631	0.0
70.0		9.414	33.554	25.920	0.1852	0.0
80.0		9.208	33.645	26.025	0.2060	0.0
90.0		9.105	33.718	26.098	0.2259	0.0
100.0		8.684	33.814	26.240	0.2447	0.0
110.0		8.562	33.878	26.309	0.2627	0.0
120.0		8.472	33.889	26.330	0.2801	0.0
130.0		8.177	33.920	26.399	0.2974	0.0
140.0		7.951	33.945	26.453	0.3138	0.0
150.0		7.853	33.956	26.476	0.3300	0.0
160.0		7.769	33.970	26.499	0.3459	0.0
170.0		7.541	33.988	26.546	0.3615	0.0
180.0		7.509	33.993	26.554	0.3769	0.0
185.0		7.483	33.996	26.561	0.3846	0.0



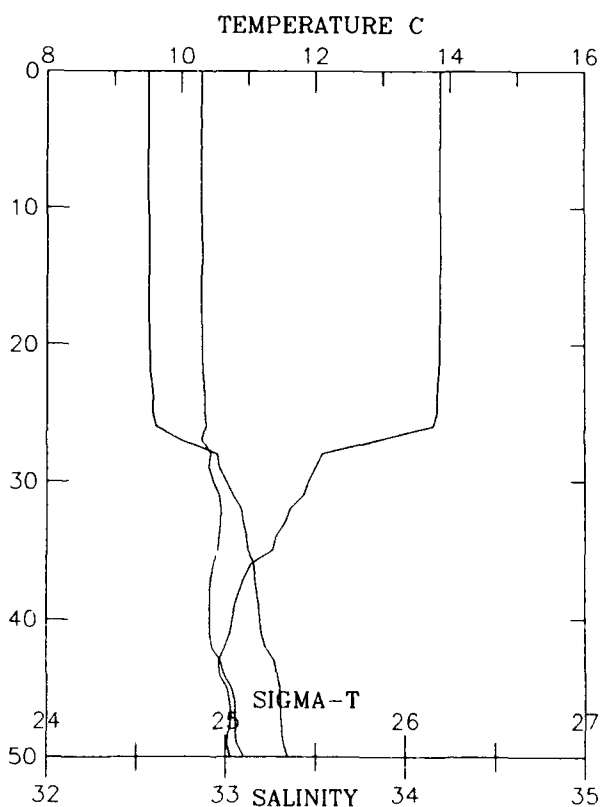
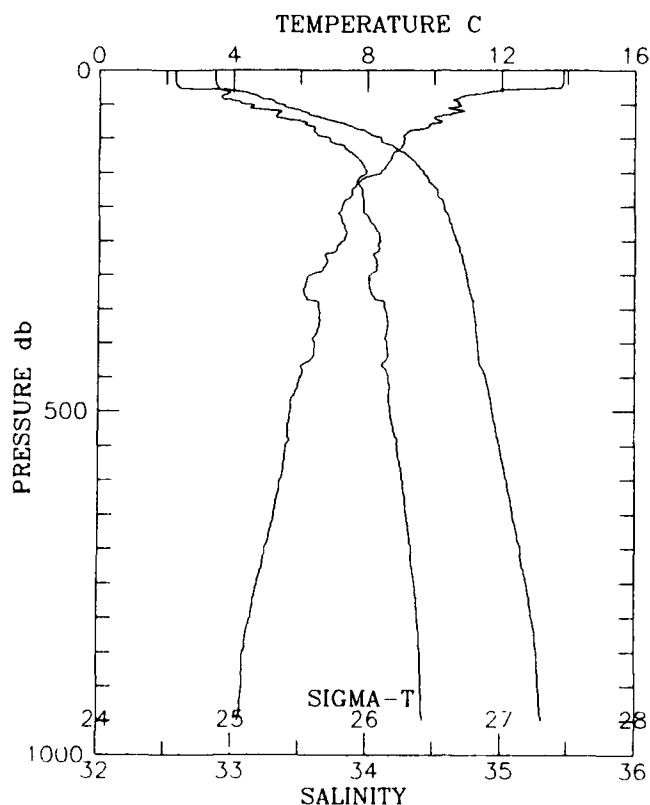
Cruise W8905 Station # 53 Depth m: 310 Time: 1989-05-08 08:17  
 Position: 38 44.60'N 123 50.50'W Depth Deck Offset: -2.58

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
-1.0	13.181	32.901	24.732	0.0000	0.0
0.0	13.181	32.901	24.732	-0.0032	0.0
10.0	13.180	32.901	24.732	0.0291	0.0
20.0	13.160	32.893	24.730	0.0616	0.0
30.0	11.142	32.879	25.099	0.0923	0.0
40.0	10.919	33.101	25.312	0.1203	0.0
50.0	10.833	33.304	25.485	0.1465	0.0
60.0	10.608	33.423	25.617	0.1713	0.0
80.0	9.308	33.548	25.933	0.2166	0.0
100.0	9.105	33.783	26.149	0.2565	0.0
150.0	7.821	33.932	26.462	0.3430	0.0
200.0	7.094	33.997	26.616	0.4205	0.0
250.0	6.899	34.069	26.699	0.4923	0.0
300.0	6.794	34.102	26.740	0.5621	0.0
308.0	6.776	34.105	26.745	0.5731	0.0



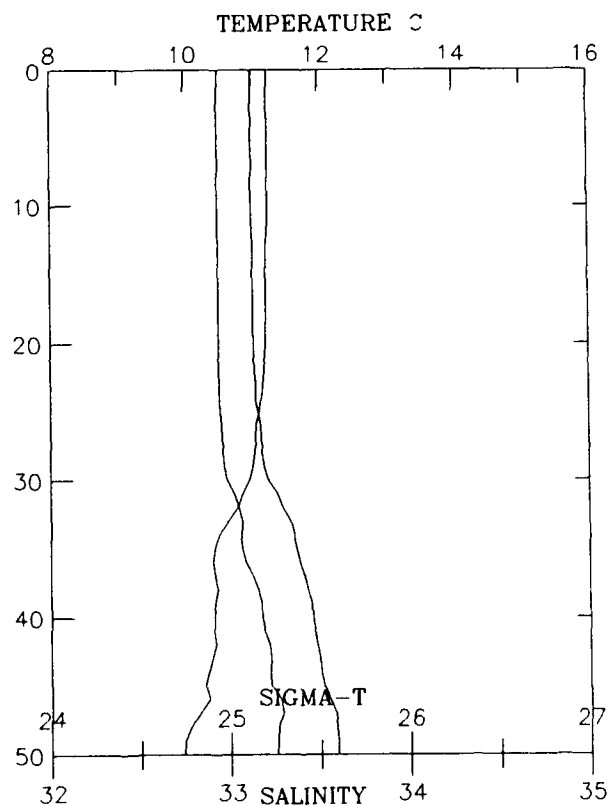
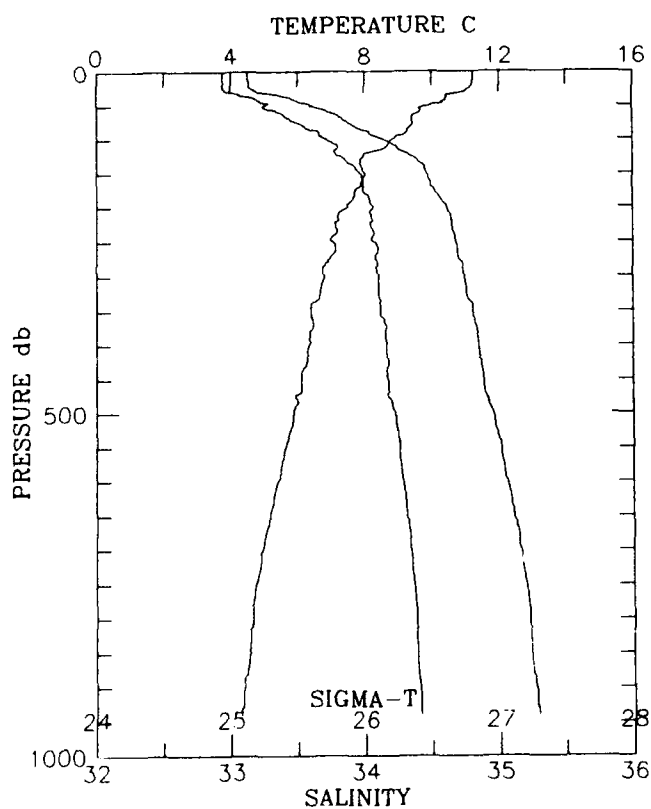
Cruise W8905 Station # 54 Depth m: 957 Time: 1989-05-08 08:53  
 Position: 38 43.20'N 123 52.60'W Depth Deck Offset: -0.28

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	13.858	32.864	24.567	0.0000	0.0
10.0		13.857	32.865	24.568	0.0340	0.0
20.0		13.843	32.869	24.574	0.0679	0.0
30.0		11.896	32.929	25.001	0.1007	0.0
40.0		10.767	32.913	25.192	0.1294	0.0
50.0		10.734	33.101	25.344	0.1567	0.0
60.0		10.890	33.349	25.510	0.1827	0.0
80.0		9.845	33.539	25.838	0.2299	0.0
100.0		9.090	33.717	26.100	0.2714	0.0
150.0		8.422	33.995	26.421	0.3609	0.0
200.0		7.259	33.977	26.577	0.4399	0.0
250.0		7.283	34.101	26.672	0.5139	0.0
300.0		6.324	34.023	26.740	0.5841	0.0
400.0		6.432	34.151	26.827	0.7174	0.0
500.0		5.725	34.174	26.935	0.8434	0.0
600.0		5.418	34.266	27.045	0.9601	0.0
700.0		4.973	34.333	27.149	1.0678	0.0
800.0		4.576	34.384	27.235	1.1664	0.0
900.0		4.305	34.406	27.281	1.2583	0.0
950.0		4.183	34.421	27.306	1.3034	0.0



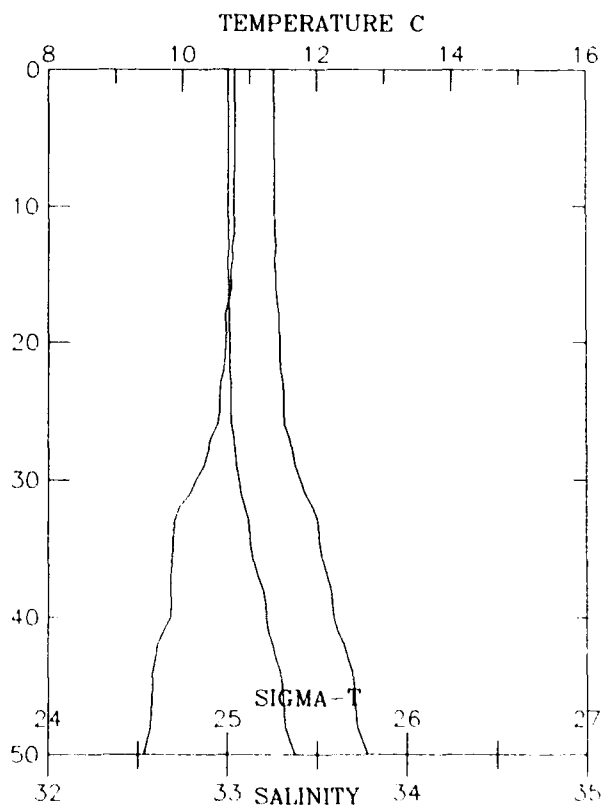
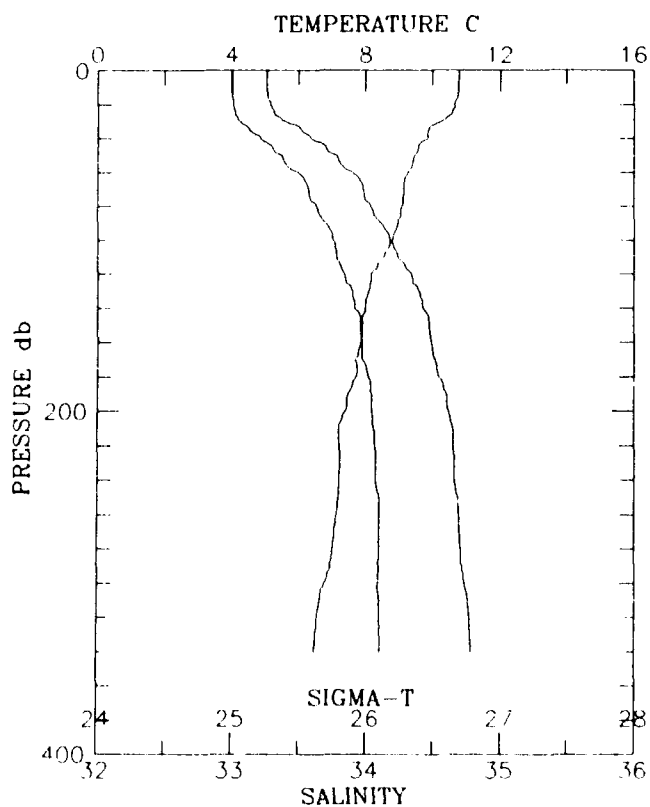
Cruise W8905 Station # 55 Depth m: 893 Time: 1989-05-08 10:18  
 Position: 38 36.40'N 123 47.10'W Depth Deck Offset: -0.28

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 11.240	32.939	25.128	0.0000	0.0
10.0	11.243	32.938	25.127	0.0286	0.0
20.0	11.202	32.941	25.137	0.0572	0.0
30.0	10.965	32.983	25.212	0.0855	0.0
40.0	10.416	33.174	25.456	0.1120	0.0
50.0	9.976	33.256	25.595	0.1369	0.0
60.0	9.640	33.345	25.720	0.1605	0.0
80.0	9.417	33.535	25.905	0.2047	0.0
100.0	8.841	33.703	26.128	0.2454	0.0
150.0	7.999	33.962	26.459	0.3324	0.0
200.0	7.487	34.061	26.611	0.4106	0.0
250.0	7.009	34.062	26.679	0.4833	0.0
300.0	6.782	34.103	26.742	0.5534	0.0
400.0	6.335	34.161	26.847	0.6861	0.0
500.0	5.863	34.223	26.956	0.8115	0.0
600.0	5.388	34.283	27.061	0.9264	0.0
700.0	4.930	34.340	27.160	1.0321	0.0
800.0	4.630	34.377	27.223	1.1303	0.0
900.0	4.391	34.400	27.267	1.2250	0.0
941.0	4.288	34.409	27.286	1.2626	0.0



Cruise W8905 Station # 56 Depth m: 349 Time: 1989-05-08 11:37  
 Position: 38 37.80'N 123 45.30'W Depth Deck Offset: -0.30

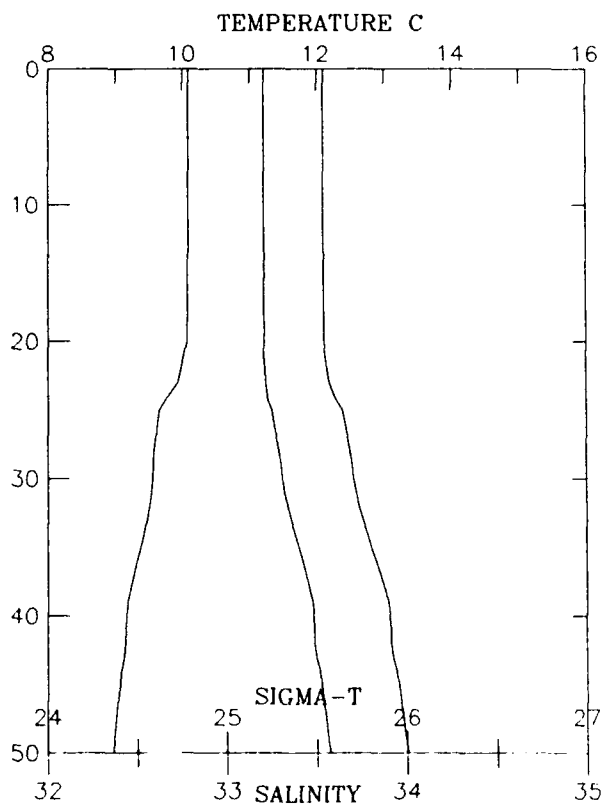
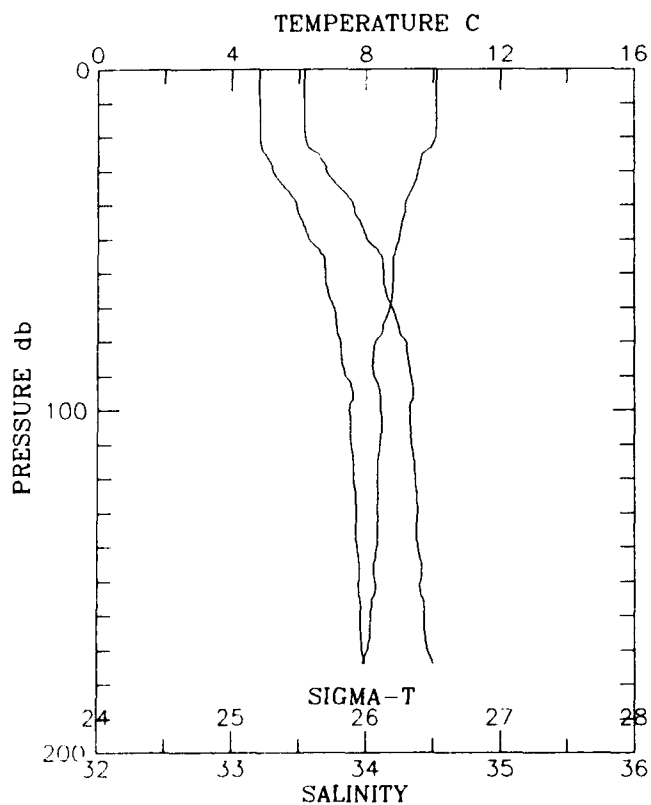
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 10.780	33.006	25.262	0.0000	0.0
10.0	10.770	33.006	25.264	0.0273	0.0
20.0	10.641	33.015	25.293	0.0546	0.0
30.0	10.198	33.063	25.407	0.0813	0.0
40.0	9.821	33.219	25.592	0.1063	0.0
50.0	9.423	33.378	25.781	0.1296	0.0
60.0	9.245	33.492	25.899	0.1518	0.0
80.0	9.068	33.630	26.035	0.1932	0.0
100.0	8.774	33.751	26.176	0.2321	0.0
150.0	7.895	33.961	26.473	0.3183	0.0
200.0	7.365	34.050	26.620	0.3959	0.0
250.0	7.174	34.100	26.686	0.4683	0.0
300.0	6.758	34.090	26.735	0.5386	0.0
341.0	6.472	34.107	26.787	0.5940	0.0



Cruise W8905 Station # 57 Depth m: 183 Time: 1989-05-08 12:24  
 Position: 38 39.80'N 123 42.50'W Depth Deck Offset: -0.30

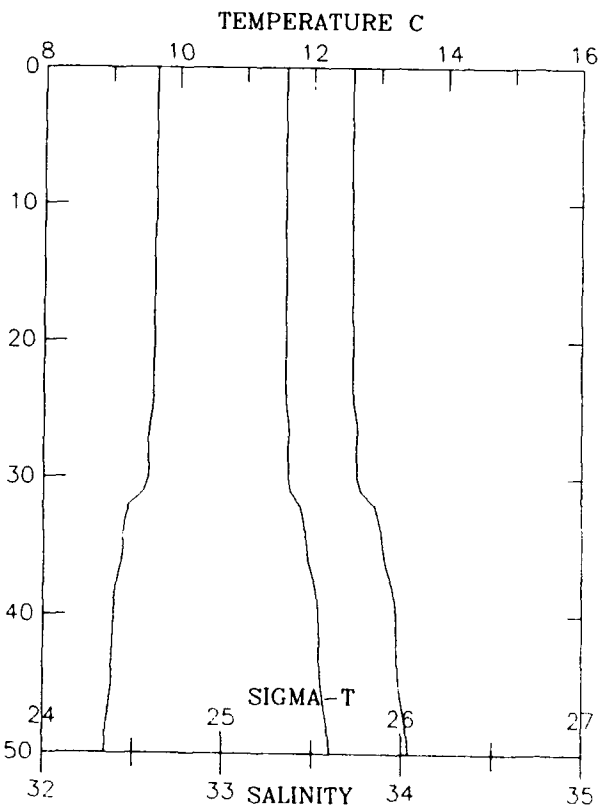
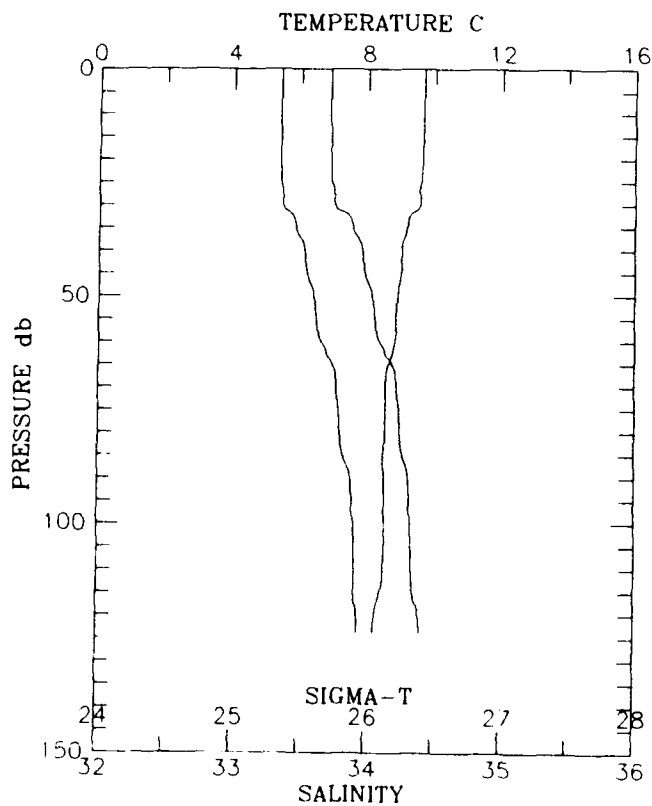
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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0.0	E	10.095	33.206	25.536	0.0000
10.0		10.091	33.207	25.537	0.0247
20.0		10.069	33.208	25.542	0.0495
30.0		9.553	33.308	25.705	0.0734
40.0		9.166	33.482	25.904	0.0956
50.0		8.972	33.573	26.006	0.1165
60.0		8.804	33.698	26.130	0.1360
70.0		8.702	33.760	26.194	0.1551
80.0		8.276	33.807	26.296	0.1733
90.0		8.229	33.844	26.332	0.1908
100.0		8.431	33.875	26.326	0.2080
110.0		8.422	33.892	26.340	0.2254
120.0		8.336	33.908	26.366	0.2426
130.0		8.325	33.928	26.383	0.2596
140.0		8.333	33.935	26.388	0.2765
150.0		8.274	33.945	26.404	0.2933
160.0		8.153	33.960	26.434	0.3099
170.0		8.045	33.970	26.458	0.3263
174.0		7.901	33.992	26.497	0.3327



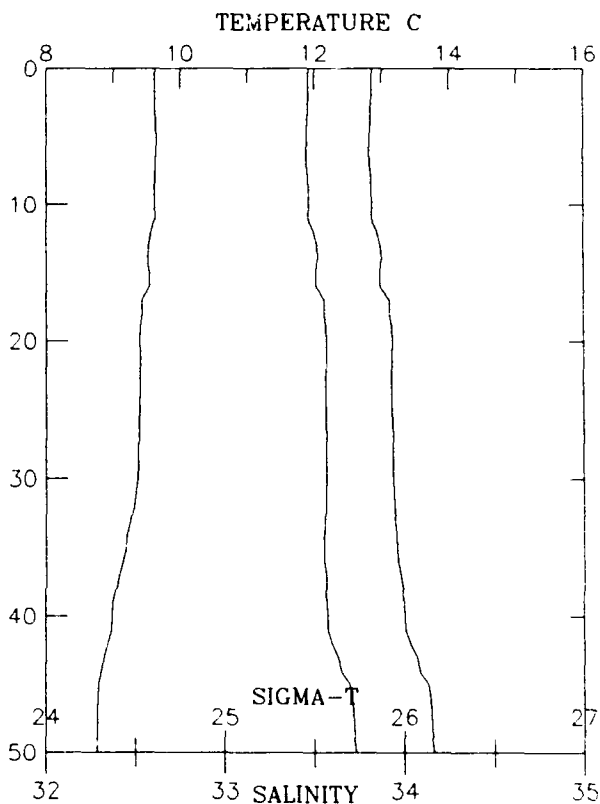
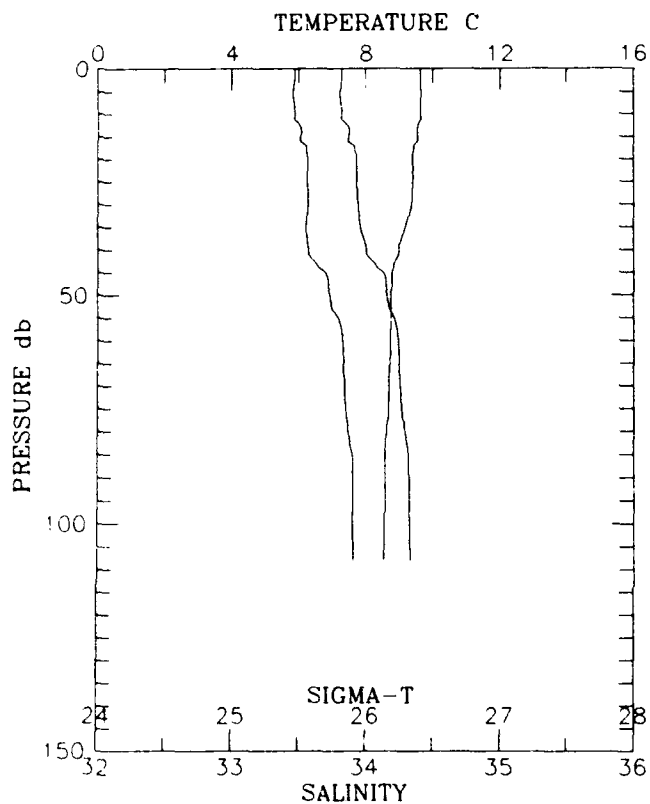
Cruise W8905 Station # 58 Depth m: 133 Time: 1989-05-08 13:02  
 Position: 38 41.50'N 123 40.30'W Depth Deck Offset: -0.30

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.665	33.350	25.720	0.0000	0.0
10.0		9.662	33.349	25.719	0.0230	0.0
20.0		9.641	33.352	25.725	0.0460	0.0
30.0		9.559	33.366	25.750	0.0688	0.0
40.0		9.038	33.535	25.966	0.0903	0.0
50.0		8.914	33.599	26.035	0.1108	0.0
60.0		8.839	33.655	26.091	0.1306	0.0
70.0		8.581	33.777	26.226	0.1494	0.0
80.0		8.561	33.800	26.247	0.1676	0.0
90.0		8.542	33.883	26.315	0.1855	0.0
100.0		8.556	33.910	26.334	0.2029	0.0
110.0		8.527	33.914	26.341	0.2202	0.0
120.0		8.296	33.935	26.393	0.2373	0.0
124.0		8.247	33.940	26.405	0.2440	0.0



Cruise W8905 Station # 59 Depth m: 117 Time: 1989-05-08 13:33  
 Position: 38 42.80'N 123 38.50'W Depth Deck Offset: -0.30

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.624	33.470	25.820	0.0000	0.0
10.0		9.618	33.470	25.821	0.0221	0.0
20.0		9.397	33.565	25.932	0.0436	0.0
30.0		9.358	33.566	25.939	0.0646	0.0
40.0		8.983	33.573	26.004	0.0853	0.0
50.0		8.762	33.731	26.162	0.1048	0.0
60.0		8.734	33.826	26.240	0.1233	0.0
70.0		8.702	33.841	26.257	0.1413	0.0
80.0		8.619	33.865	26.289	0.1592	0.0
90.0		8.579	33.901	26.323	0.1767	0.0
100.0		8.564	33.903	26.327	0.1942	0.0
108.0		8.541	33.909	26.335	0.2081	0.0

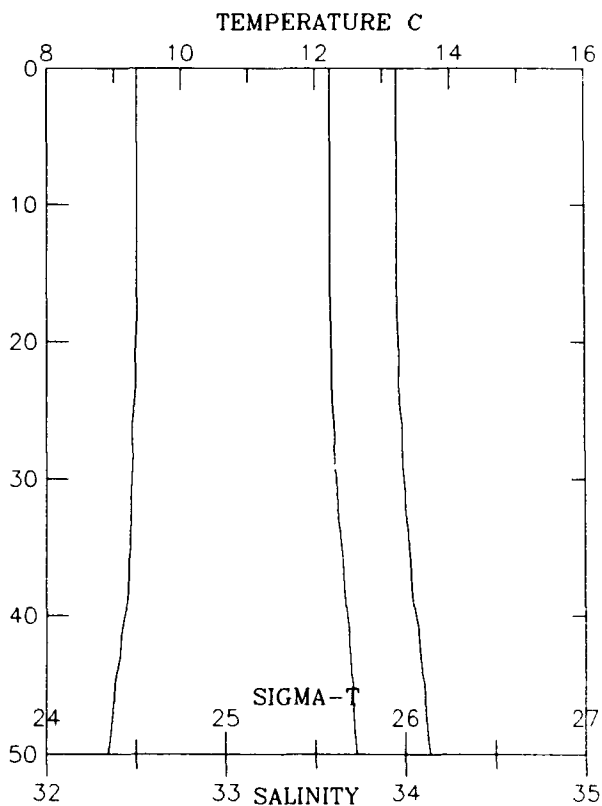
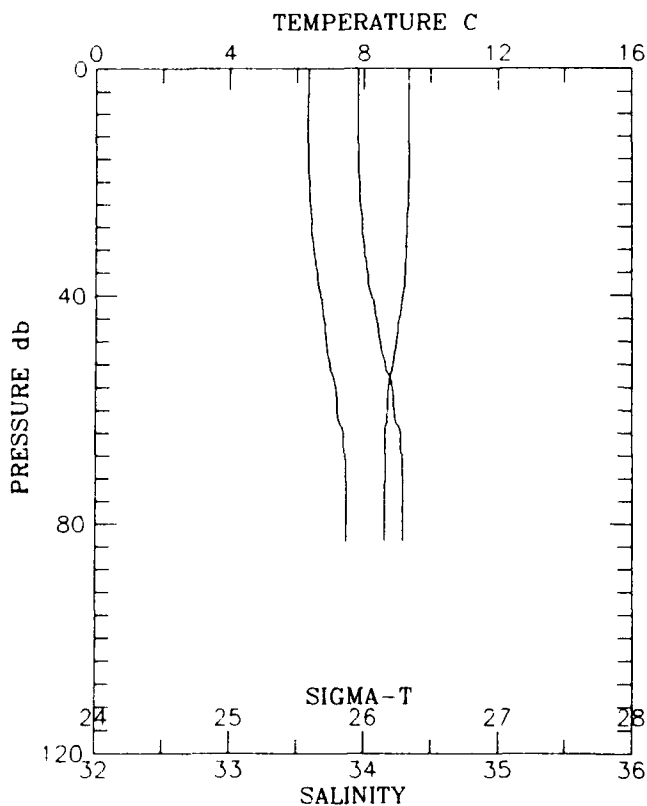




Cruise W8905 Station # 60 Depth m: 92 Time: 1989-05-08 14:04  
 Position: 38 44.40'N 123 36.50'W Depth Deck Offset: -0.30

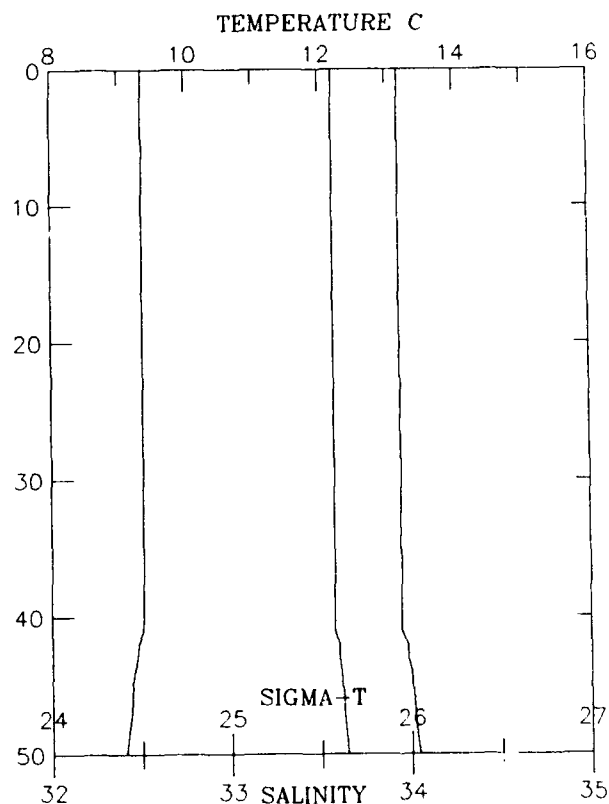
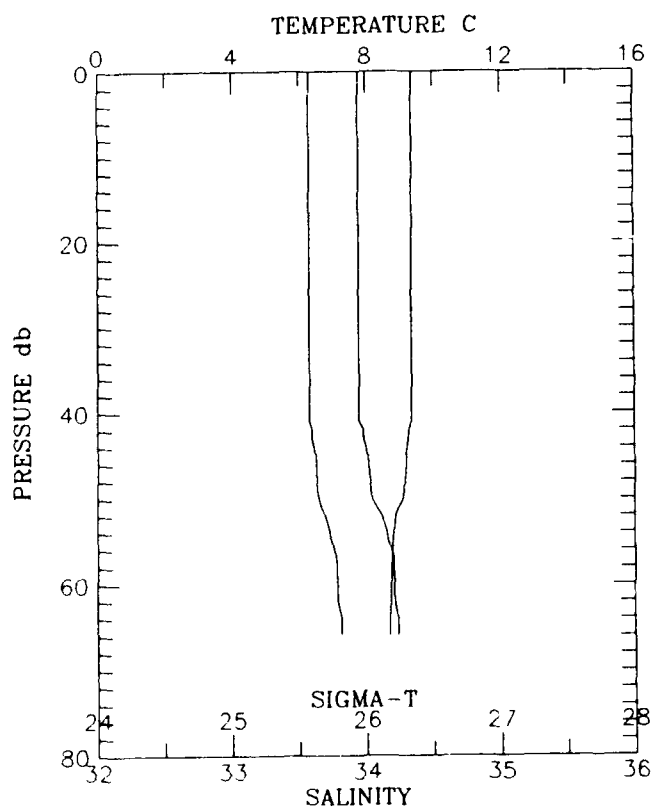
PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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0.0	E	9.344	33.586	25.957	0.0000	0.0
5.0		9.341	33.584	25.956	0.0104	0.0
10.0		9.342	33.583	25.955	0.0207	0.0
15.0		9.341	33.584	25.956	0.0311	0.0
20.0		9.322	33.590	25.963	0.0415	0.0
25.0		9.299	33.600	25.975	0.0519	0.0
30.0		9.264	33.616	25.993	0.0621	0.0
35.0		9.242	33.645	26.019	0.0723	0.0
40.0		9.163	33.677	26.057	0.0823	0.0
45.0		9.012	33.707	26.104	0.0921	0.0
50.0		8.915	33.729	26.137	0.1018	0.0
55.0		8.756	33.781	26.202	0.1112	0.0
60.0		8.711	33.802	26.225	0.1204	0.0
65.0		8.636	33.849	26.274	0.1294	0.0
70.0		8.627	33.863	26.286	0.1383	0.0
75.0		8.622	33.868	26.291	0.1472	0.0
80.0		8.618	33.868	26.292	0.1560	0.0
83.0		8.617	33.868	26.292	0.1613	0.0



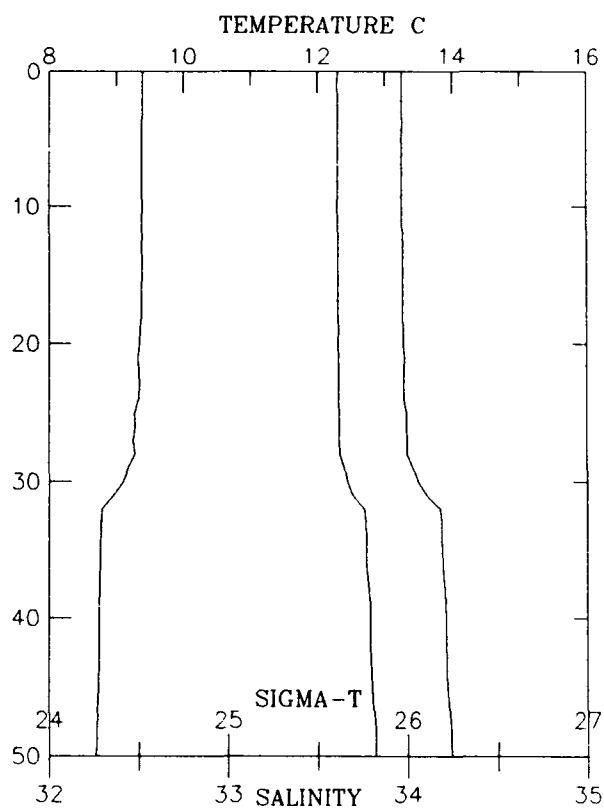
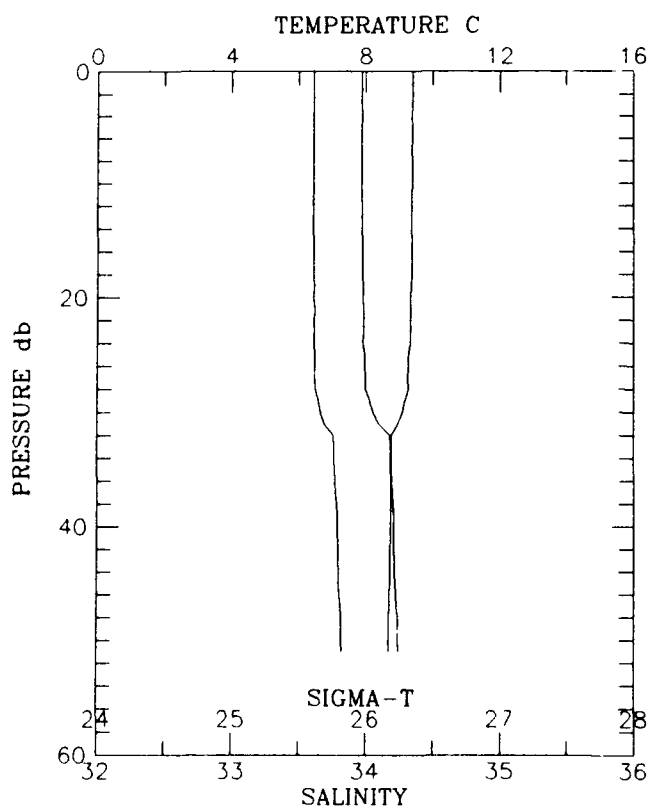
Cruise W8905 Station # 61 Depth m: 76 Time: 1989-05-08 14:27  
 Position: 38 45.20'N 123 35.40'W Depth Deck Offset: -0.30

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.369	33.576	25.945	0.0000	0.0
5.0		9.365	33.576	25.945	0.0104	0.0
10.0		9.364	33.576	25.946	0.0209	0.0
15.0		9.365	33.576	25.946	0.0313	0.0
20.0		9.362	33.577	25.947	0.0417	0.0
25.0		9.361	33.577	25.947	0.0522	0.0
30.0		9.361	33.577	25.947	0.0626	0.0
35.0		9.361	33.576	25.946	0.0730	0.0
40.0		9.360	33.577	25.947	0.0835	0.0
45.0		9.189	33.619	26.007	0.0938	0.0
50.0		9.094	33.643	26.041	0.1039	0.0
55.0		8.793	33.741	26.165	0.1136	0.0
60.0		8.729	33.784	26.208	0.1229	0.0
65.0		8.704	33.814	26.236	0.1320	0.0
66.0		8.701	33.817	26.239	0.1339	0.0



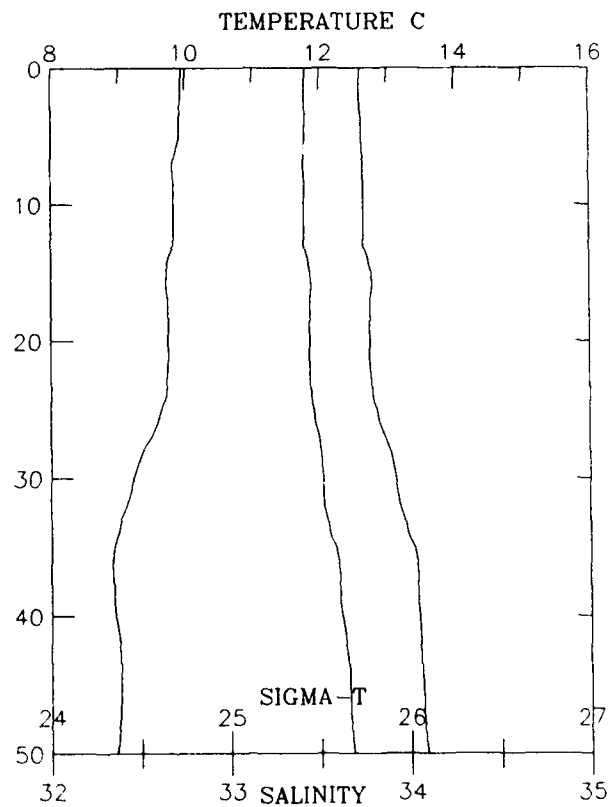
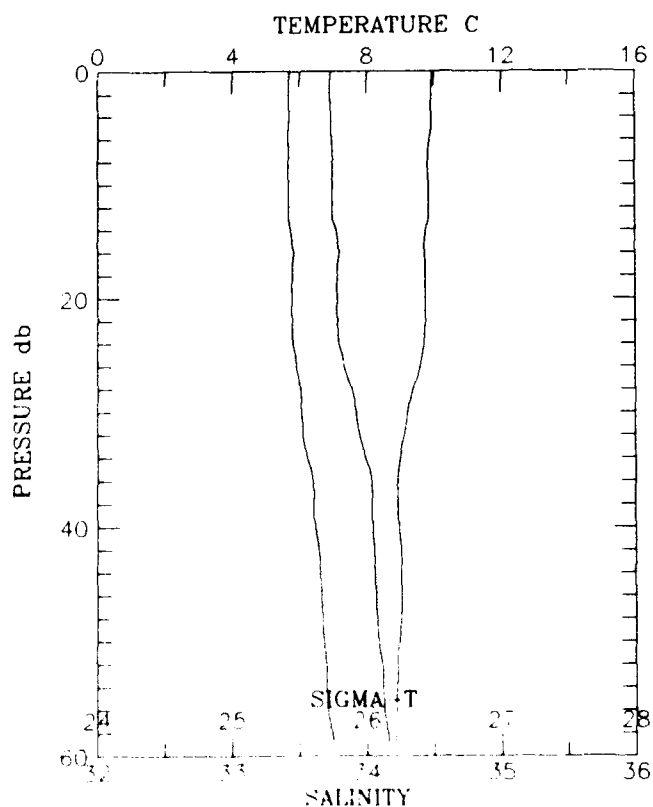
Cruise W8905 Station # 62 Depth m: 58 Time: 1989-05-08 14:59  
 Position: 38 45.80'N 123 34.80'W Depth Deck Offset: -0.30

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.389	33.612	25.970	0.0000	0.0
5.0		9.383	33.612	25.971	0.0103	0.0
10.0		9.387	33.611	25.969	0.0206	0.0
15.0		9.378	33.612	25.972	0.0309	0.0
20.0		9.341	33.612	25.978	0.0412	0.0
25.0		9.273	33.621	25.995	0.0515	0.0
30.0		9.103	33.664	26.056	0.0616	0.0
35.0		8.764	33.772	26.193	0.0711	0.0
40.0		8.743	33.792	26.213	0.0803	0.0
45.0		8.734	33.801	26.221	0.0895	0.0
50.0		8.699	33.821	26.242	0.0986	0.0
51.0		8.695	33.823	26.244	0.1004	0.0



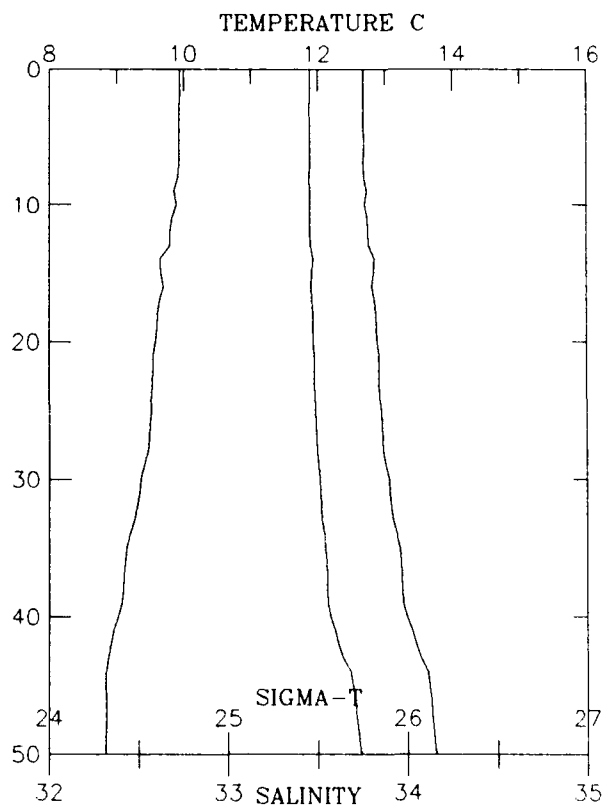
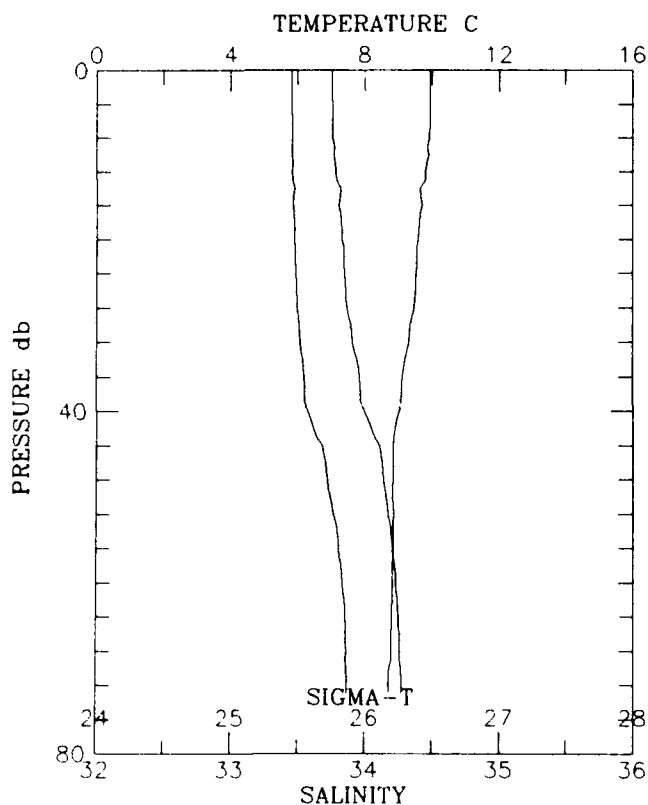
Cruise W8905 Station # 63 Depth m: 68 Time: 1989-05-08 16:07  
 Position: 38 40.10'N 123 26.70'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 9.942	33.419	25.728	0.0000	0.0
5.0	9.914	33.418	25.732	0.0114	0.0
10.0	9.834	33.415	25.743	0.0228	0.0
15.0	9.721	33.448	25.787	0.0342	0.0
20.0	9.743	33.444	25.781	0.0454	0.0
25.0	9.639	33.470	25.818	0.0566	0.0
30.0	9.223	33.514	25.920	0.0674	0.0
35.0	8.925	33.583	26.020	0.0778	0.0
40.0	8.947	33.618	26.045	0.0878	0.0
45.0	9.028	33.658	26.064	0.0977	0.0
50.0	8.962	33.678	26.089	0.1076	0.0
55.0	8.864	33.704	26.125	0.1173	0.0
59.0	8.828	33.750	26.166	0.1249	0.0



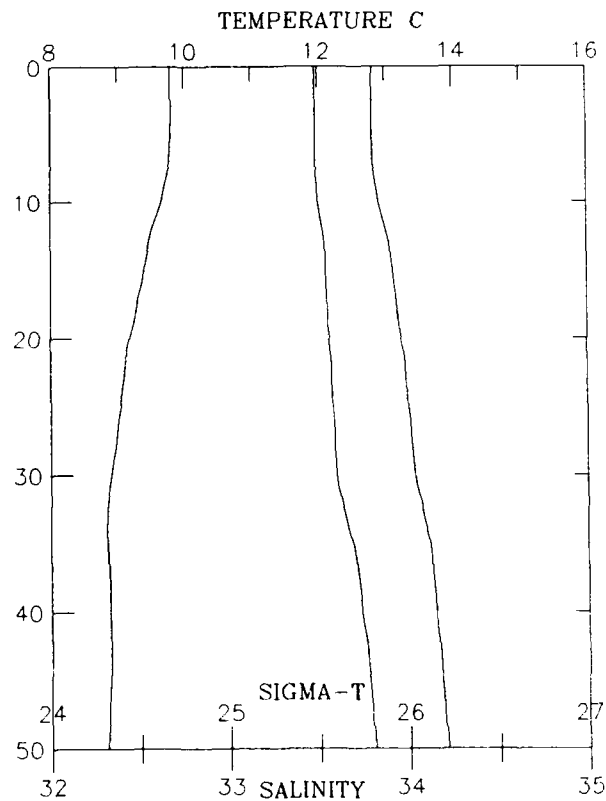
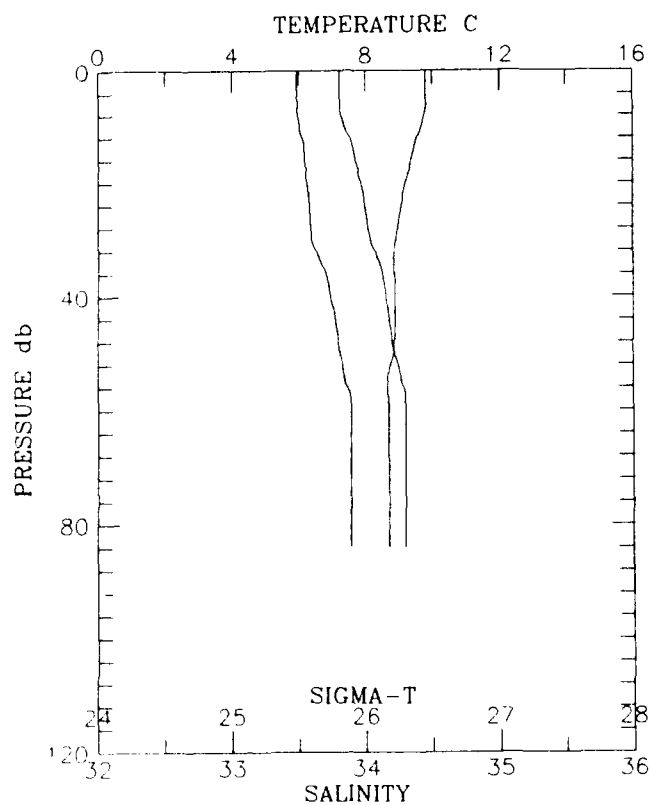
Cruise W8905 Station # 64 Depth m: 80 Time: 1989-05-08 16:35  
 Position: 38 39.20'N 123 27.70'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 9.944	33.456	25.756	0.0000	0.0
5.0	9.937	33.455	25.757	0.0113	0.0
10.0	9.895	33.455	25.764	0.0226	0.0
15.0	9.666	33.468	25.812	0.0338	0.0
20.0	9.584	33.476	25.832	0.0448	0.0
25.0	9.516	33.488	25.852	0.0558	0.0
30.0	9.359	33.511	25.896	0.0666	0.0
35.0	9.151	33.543	25.954	0.0771	0.0
40.0	9.022	33.571	25.996	0.0875	0.0
45.0	8.843	33.694	26.120	0.0974	0.0
50.0	8.835	33.740	26.157	0.1069	0.0
55.0	8.846	33.803	26.205	0.1163	0.0
60.0	8.825	33.835	26.233	0.1255	0.0
65.0	8.805	33.856	26.253	0.1345	0.0
70.0	8.732	33.865	26.271	0.1435	0.0
73.0	8.712	33.869	26.278	0.1489	0.0



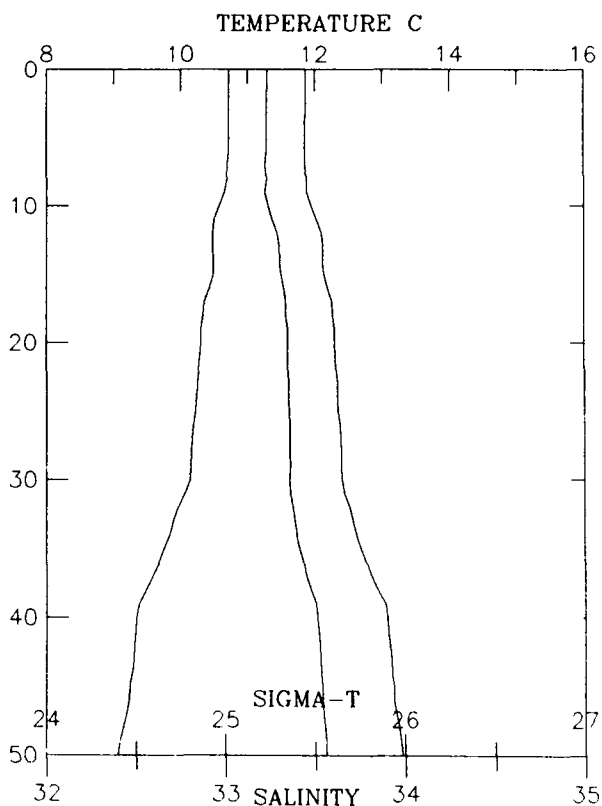
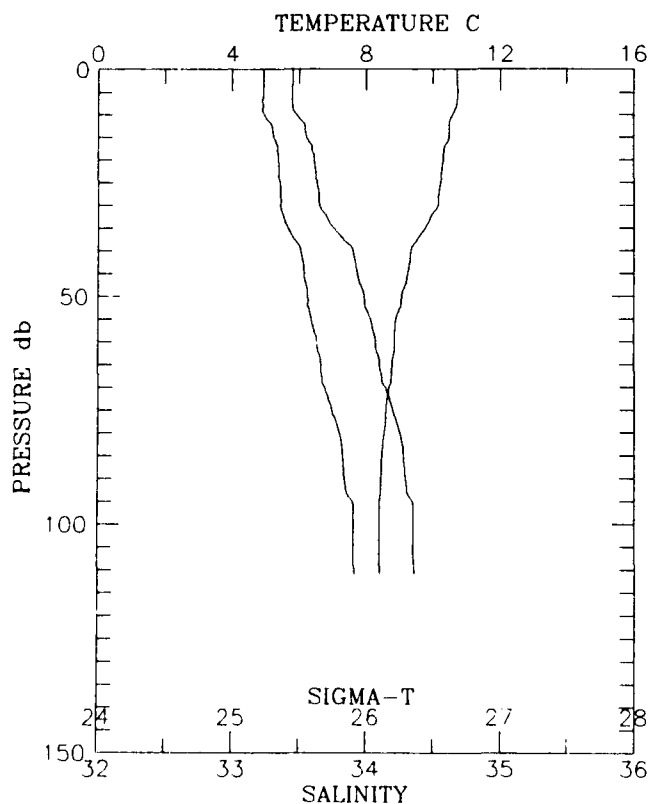
Cruise W8905 Station # 65 Depth m: 92 Time: 1989-05-08 16:58  
 Position: 38 38.20'N 123 29.30'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 9.800	33.488	25.805	0.0000	0.0
5.0	9.802	33.487	25.804	0.0111	0.0
10.0	9.667	33.502	25.838	0.0221	0.0
15.0	9.388	33.543	25.916	0.0329	0.0
20.0	9.181	33.561	25.963	0.0433	0.0
25.0	9.048	33.580	25.999	0.0536	0.0
30.0	8.900	33.599	26.037	0.0637	0.0
35.0	8.834	33.689	26.118	0.0735	0.0
40.0	8.872	33.735	26.148	0.0831	0.0
45.0	8.878	33.778	26.181	0.0925	0.0
50.0	8.830	33.807	26.211	0.1018	0.0
55.0	8.651	33.844	26.267	0.1108	0.0
60.0	8.679	33.887	26.297	0.1197	0.0
65.0	8.683	33.888	26.297	0.1285	0.0
70.0	8.686	33.888	26.297	0.1373	0.0
75.0	8.686	33.888	26.297	0.1461	0.0
80.0	8.690	33.888	26.296	0.1549	0.0
84.0	8.688	33.888	26.296	0.1620	0.0



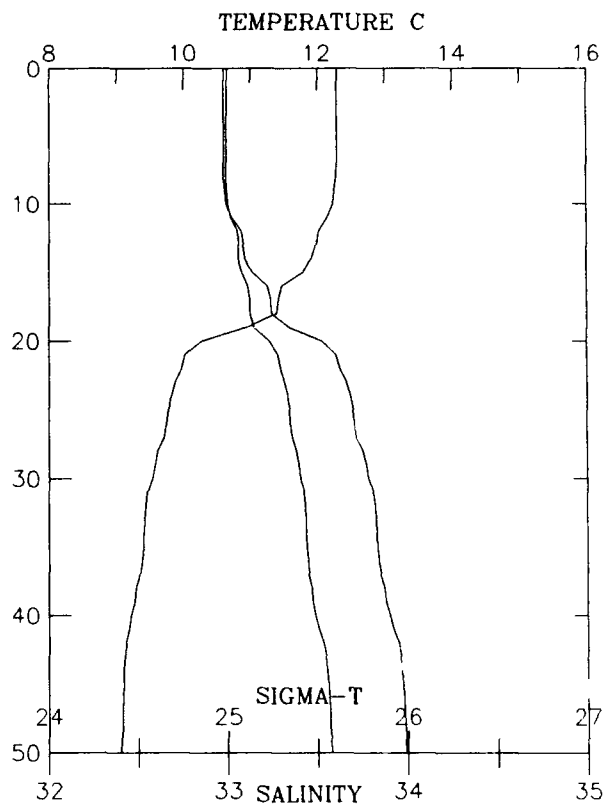
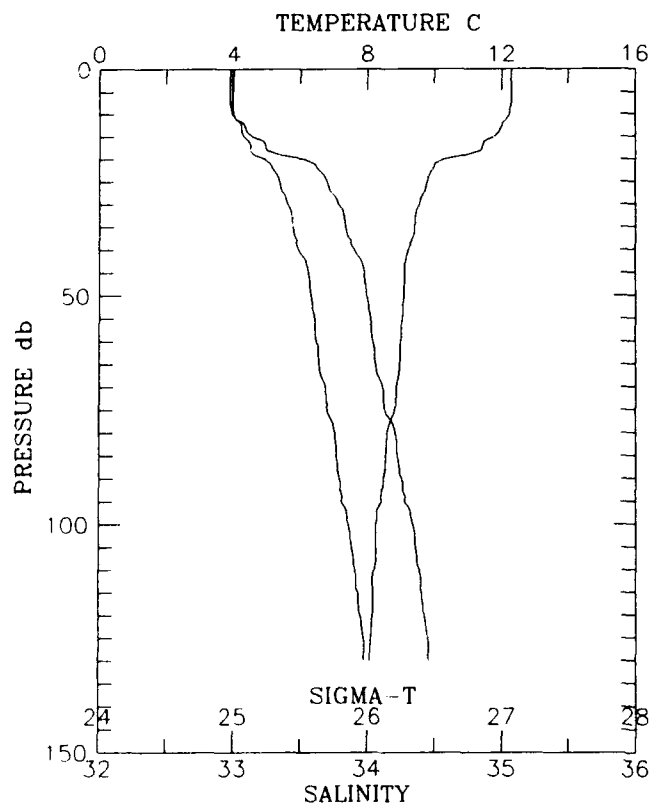
Cruise W8905 Station # 66 Depth m: 116 Time: 1989-05-08 17:29  
 Position: 38 36.90'N 123 31.70'W Depth Deck Offset: -0.30

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.720	33.234	25.450	0.0000	0.0
10.0		10.579	33.239	25.479	0.0255	0.0
20.0		10.300	33.346	25.610	0.0501	0.0
30.0		10.142	33.360	25.648	0.0739	0.0
40.0		9.340	33.512	25.900	0.0966	0.0
50.0		9.063	33.564	25.985	0.1176	0.0
60.0		8.850	33.631	26.070	0.1377	0.0
70.0		8.676	33.689	26.142	0.1572	0.0
80.0		8.539	33.799	26.250	0.1758	0.0
90.0		8.446	33.839	26.295	0.1936	0.0
100.0		8.411	33.908	26.354	0.2110	0.0
110.0		8.408	33.910	26.357	0.2281	0.0
111.0		8.408	33.910	26.357	0.2298	0.0



Cruise W8905 Station # 67 Depth m: 139 Time: 1989-05-08 17:59  
 Position: 38 35.30'N 123 33.70'W Depth Deck Offset: -0.30

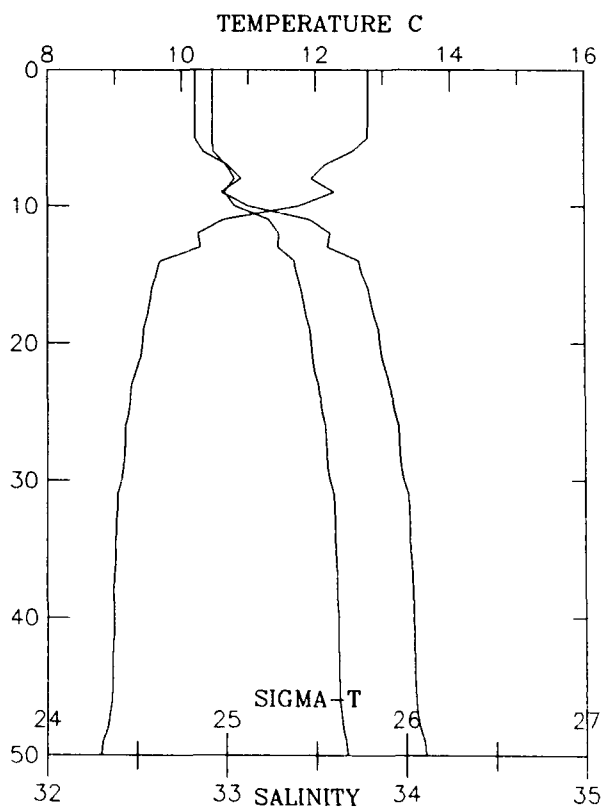
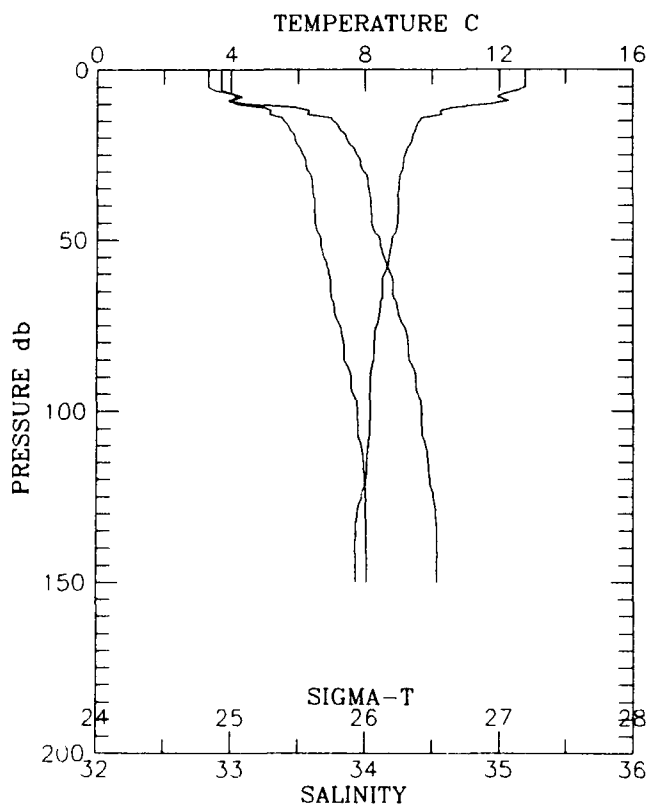
PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	12.291	32.995	24.978	0.0000	0.0
10.0		12.234	32.999	24.991	0.0300	0.0
20.0		10.274	33.233	25.527	0.0583	0.0
30.0		9.543	33.402	25.781	0.0816	0.0
40.0		9.213	33.486	25.900	0.1035	0.0
50.0		9.075	33.576	25.991	0.1243	0.0
60.0		8.988	33.618	26.038	0.1445	0.0
70.0		8.848	33.683	26.111	0.1644	0.0
80.0		8.584	33.755	26.208	0.1835	0.0
90.0		8.465	33.791	26.255	0.2018	0.0
100.0		8.257	33.857	26.338	0.2195	0.0
110.0		8.192	33.906	26.386	0.2366	0.0
120.0		8.144	33.947	26.426	0.2533	0.0
130.0		8.076	33.975	26.458	0.2696	0.0





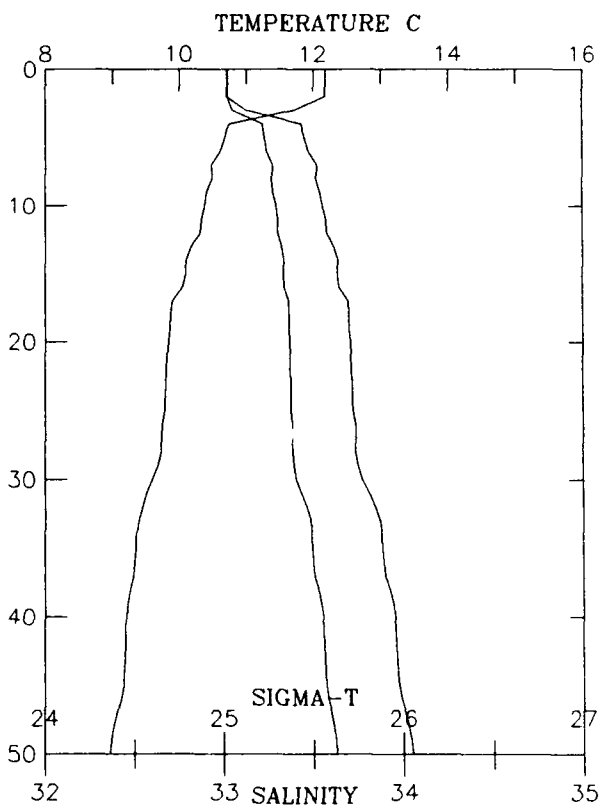
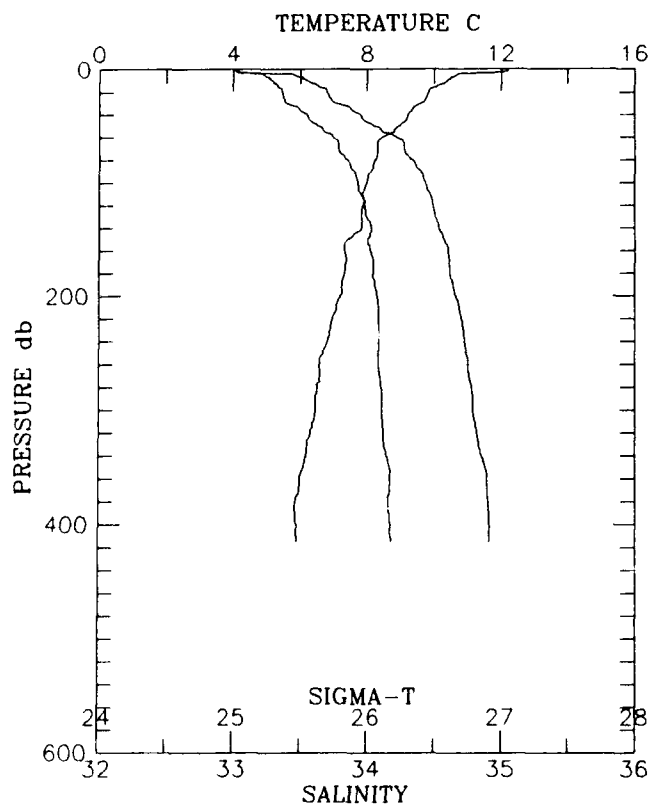
Cruise W8905 Station # 68 Depth m: 162 Time: 1989-05-08 18:43  
 Position: 38 33.10'N 123 36.90'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 12.785	32.926	24.829	0.0000	0.0
10.0	11.747	33.046	25.119	0.0307	0.0
20.0	9.421	33.475	25.858	0.0540	0.0
30.0	9.099	33.578	25.989	0.0751	0.0
40.0	8.984	33.620	26.040	0.0952	0.0
50.0	8.797	33.670	26.109	0.1151	0.0
60.0	8.568	33.725	26.187	0.1341	0.0
70.0	8.442	33.771	26.242	0.1525	0.0
80.0	8.272	33.840	26.322	0.1703	0.0
90.0	8.171	33.895	26.381	0.1875	0.0
100.0	8.149	33.940	26.419	0.2042	0.0
110.0	8.088	33.970	26.452	0.2207	0.0
120.0	8.022	33.999	26.485	0.2367	0.0
130.0	7.762	34.005	26.527	0.2525	0.0
140.0	7.704	34.009	26.539	0.2680	0.0
150.0	7.727	34.015	26.540	0.2834	0.0



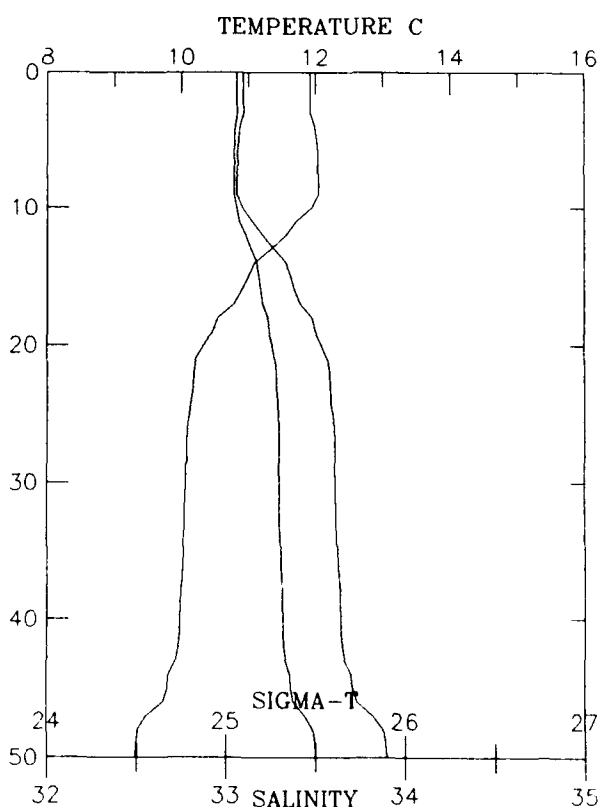
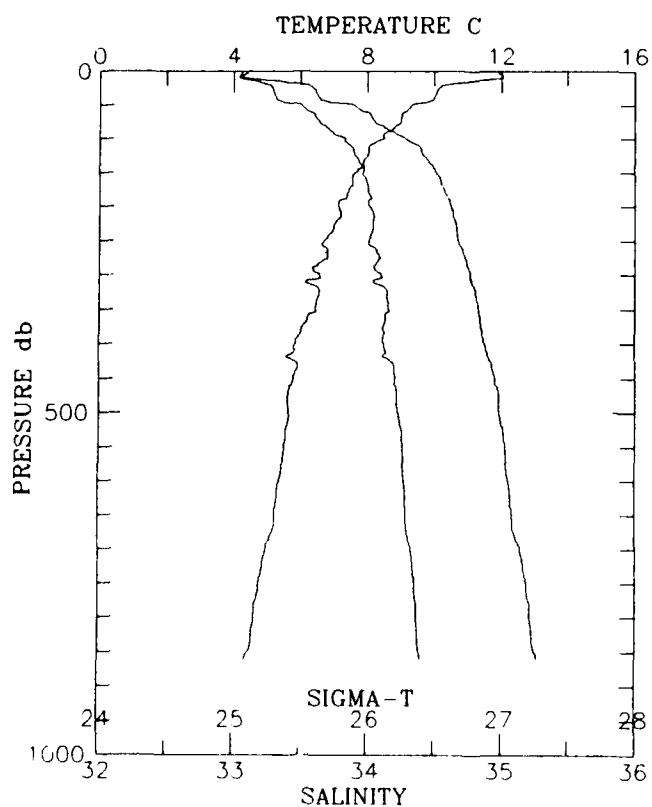
Cruise W8905 Station # 69 Depth m: 409 Time: 1989-05-08 19:20  
 Position: 38 30.70'N 123 39.60'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/0)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	12.179	33.020	25.018	0.0000
10.0		10.381	33.292	25.554	0.0266
20.0		9.837	33.367	25.705	0.0504
30.0		9.601	33.401	25.770	0.0734
40.0		9.210	33.552	25.952	0.0949
50.0		8.970	33.630	26.050	0.1154
60.0		8.441	33.746	26.223	0.1346
80.0		8.227	33.854	26.340	0.1701
100.0		7.997	33.931	26.435	0.2036
150.0		7.415	34.003	26.576	0.2824
200.0		7.203	34.076	26.663	0.3560
250.0		6.697	34.087	26.741	0.4258
300.0		6.456	34.110	26.791	0.4928
400.0		5.898	34.174	26.912	0.6188
415.0		5.929	34.185	26.917	0.6371



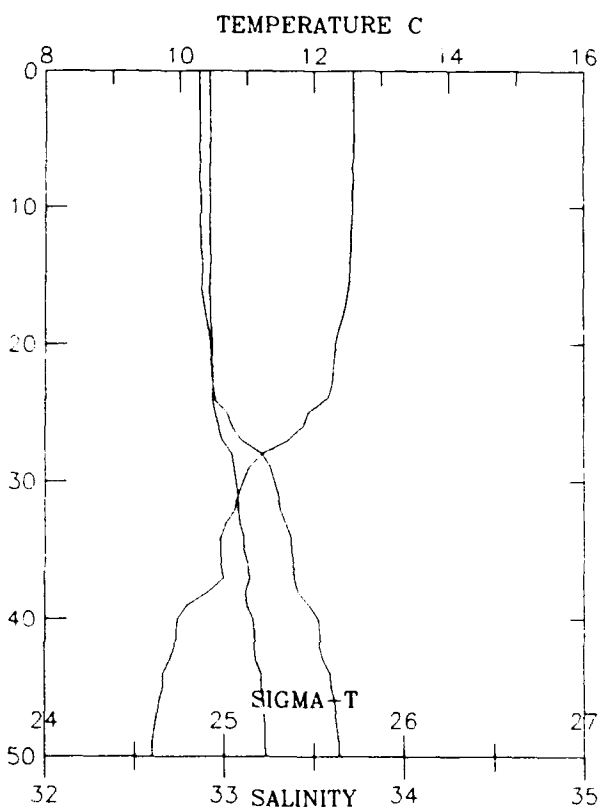
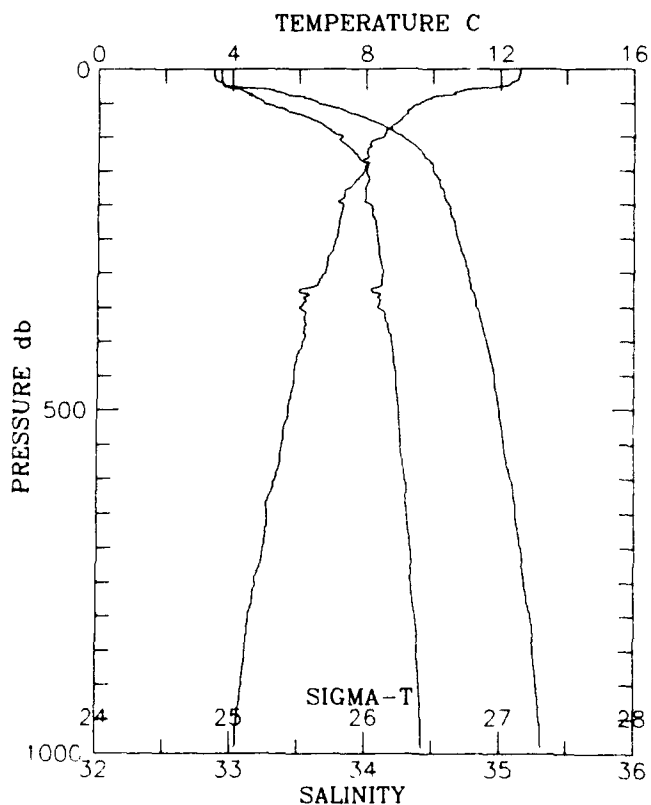
Cruise W8905 Station # 70 Depth m: 869 Time: 1989-05-08 20:02  
 Position: 38 29.10'N 123 42.60'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 11.928	33.062	25.098	0.0000	0.0
10.0	11.948	33.060	25.093	0.0291	0.0
20.0	10.341	33.259	25.536	0.0557	0.0
30.0	10.068	33.299	25.613	0.0799	0.0
40.0	9.976	33.318	25.643	0.1039	0.0
50.0	9.313	33.502	25.896	0.1267	0.0
60.0	9.131	33.559	25.969	0.1478	0.0
80.0	8.882	33.665	26.091	0.1880	0.0
100.0	8.499	33.835	26.284	0.2253	0.0
150.0	7.643	33.970	26.517	0.3080	0.0
200.0	7.139	34.014	26.623	0.3838	0.0
250.0	6.707	34.011	26.680	0.4561	0.0
300.0	6.560	34.103	26.772	0.5252	0.0
400.0	5.876	34.130	26.881	0.6550	0.0
500.0	5.657	34.232	26.988	0.7744	0.0
600.0	5.391	34.282	27.060	0.8874	0.0
700.0	4.993	34.330	27.145	0.9952	0.0
800.0	4.648	34.373	27.218	1.0945	0.0
861.0	4.336	34.401	27.274	1.1523	0.0



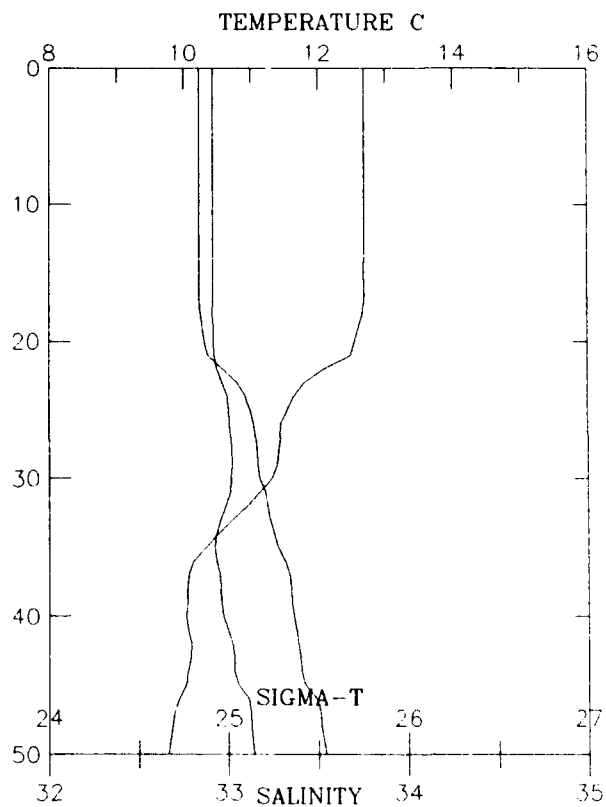
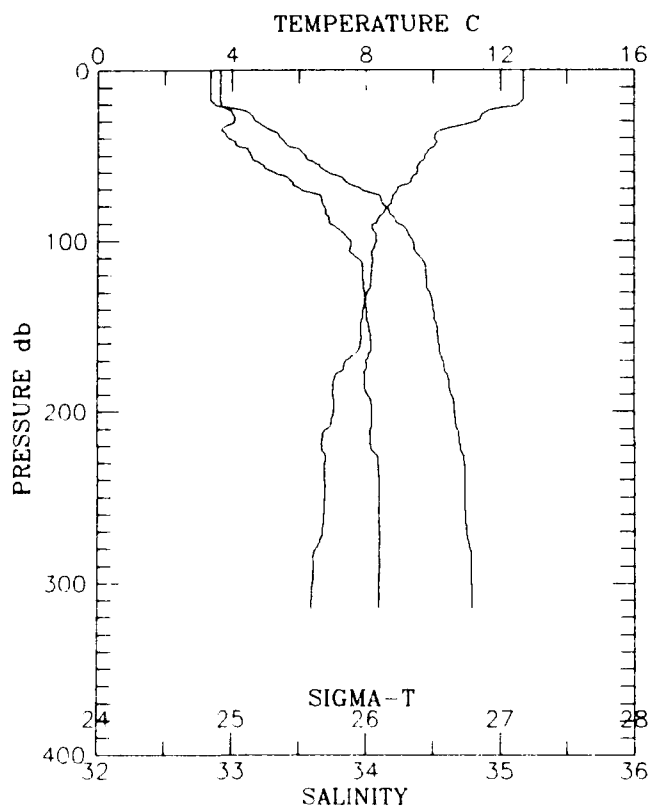
Cruise W8905 Station # 71 Depth m: 1005 Time: 1989-05-08 21:35  
 Position: 38 20.00'N 123 39.90'W Depth Deck Offset: -0.25

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	12.585	32.919	24.862	0.0000
10.0		12.563	32.919	24.867	0.0311
20.0		12.315	32.929	24.922	0.0621
30.0		10.943	33.063	25.278	0.0916
40.0		9.964	33.160	25.522	0.1179
50.0		9.590	33.232	25.640	0.1422
60.0		9.292	33.388	25.810	0.1652
80.0		8.892	33.661	26.087	0.2069
100.0		8.514	33.818	26.268	0.2445
150.0		7.940	34.005	26.501	0.3276
200.0		7.294	34.029	26.613	0.4041
250.0		7.094	34.085	26.686	0.4765
300.0		6.764	34.125	26.762	0.5460
400.0		6.107	34.190	26.900	0.6753
500.0		5.688	34.246	26.996	0.7943
600.0		5.308	34.293	27.079	0.9067
700.0		4.941	34.336	27.156	1.0116
800.0		4.523	34.372	27.231	1.1106
900.0		4.343	34.404	27.276	1.2038
992.0		4.139	34.425	27.314	1.2865



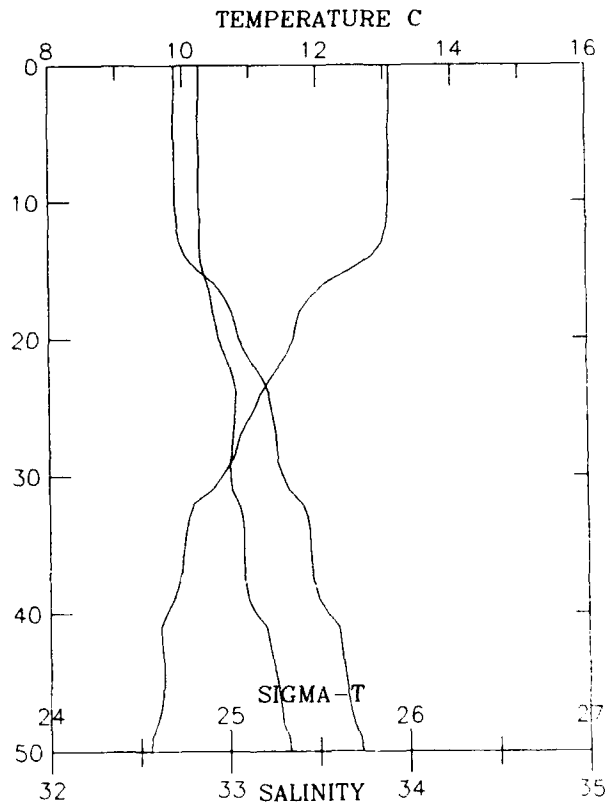
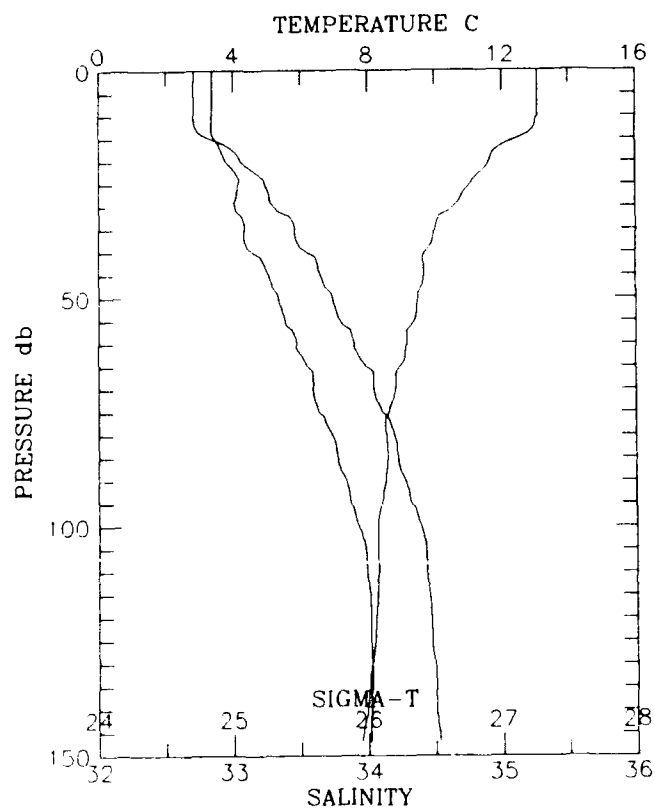
Cruise W8905 Station # 72 Depth m: 335 Time: 1989-05-08 23:11  
 Position: 38 23.90'N 123 34.80'W Depth Deck Offset: -0.25

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 12.689	32.915	24.839	0.0000	0.0
10.0	12.692	32.915	24.839	0.0314	0.0
20.0	12.550	32.920	24.870	0.0627	0.0
30.0	11.318	33.013	25.172	0.0919	0.0
40.0	10.033	32.971	25.363	0.1191	0.0
50.0	9.768	33.140	25.539	0.1448	0.0
60.0	9.523	33.311	25.713	0.1688	0.0
80.0	8.665	33.685	26.141	0.2106	0.0
100.0	8.306	33.881	26.349	0.2468	0.0
150.0	7.830	34.020	26.529	0.3281	0.0
200.0	7.038	34.044	26.661	0.4031	0.0
250.0	6.765	34.094	26.737	0.4728	0.0
300.0	6.400	34.096	26.787	0.5403	0.0
315.0	6.371	34.096	26.791	0.5602	0.0



Cruise W8905 Station # 73 Depth m: 155 Time: 1989-05-09 00:00  
 Position: 38 27.00'N 123 30.53'W Depth Deck Offset: -0.25

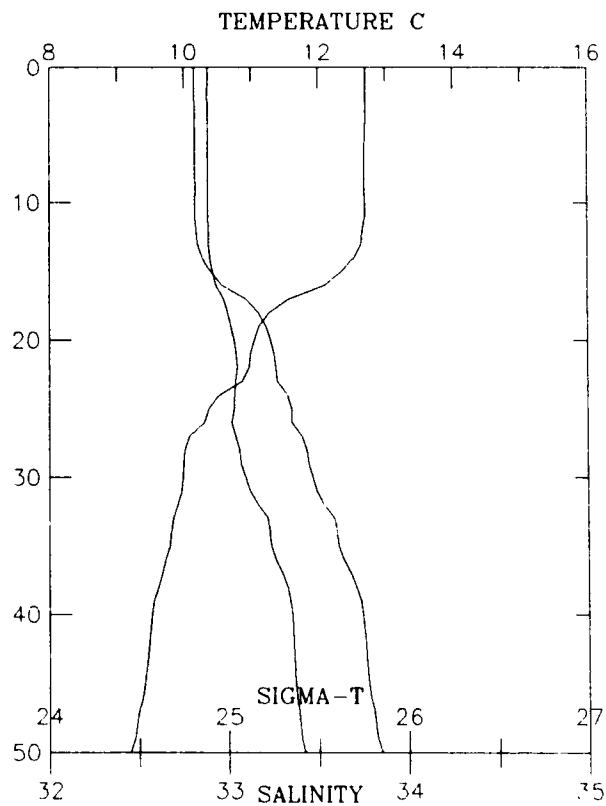
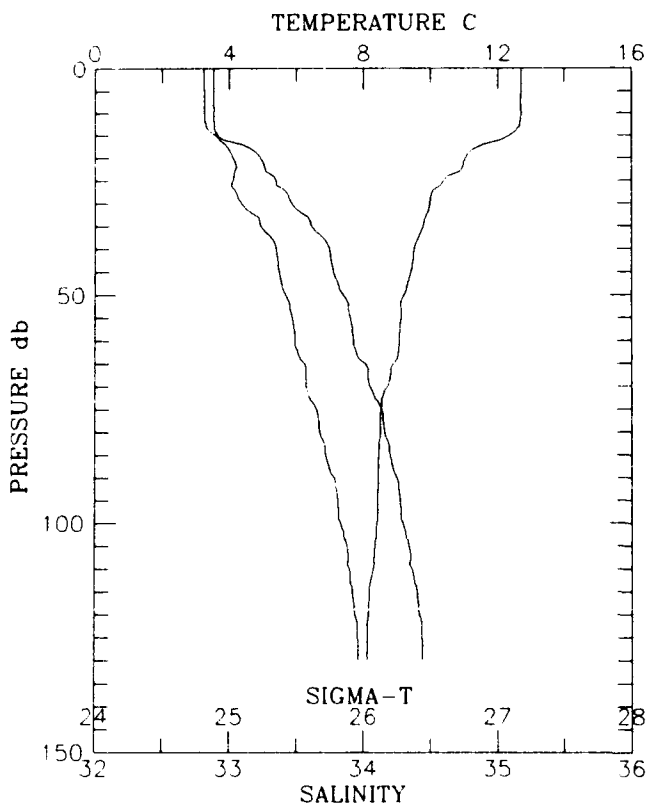
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	13.085	32.844	24.707	0.0000
10.0		13.072	32.842	24.708	0.0326
20.0		11.646	32.947	25.061	0.0638
30.0		10.579	33.014	25.303	0.0916
40.0		9.728	33.144	25.549	0.1173
50.0		9.486	33.332	25.735	0.1410
60.0		9.152	33.471	25.897	0.1632
70.0		8.826	33.593	26.044	0.1838
80.0		8.550	33.738	26.200	0.2032
90.0		8.537	33.837	26.280	0.2215
100.0		8.279	33.927	26.390	0.2388
110.0		8.302	33.992	26.437	0.2553
120.0		8.241	34.019	26.468	0.2715
130.0		8.098	34.024	26.493	0.2875
140.0		7.981	34.024	26.510	0.3033
147.0		7.796	34.014	26.530	0.3143



Cruise W8905 Station # 74 Depth m: 136 Time: 1989-05-09 00:33  
 Position: 38 29.10'N 123 27.50'W Depth Deck Offset: -0.25

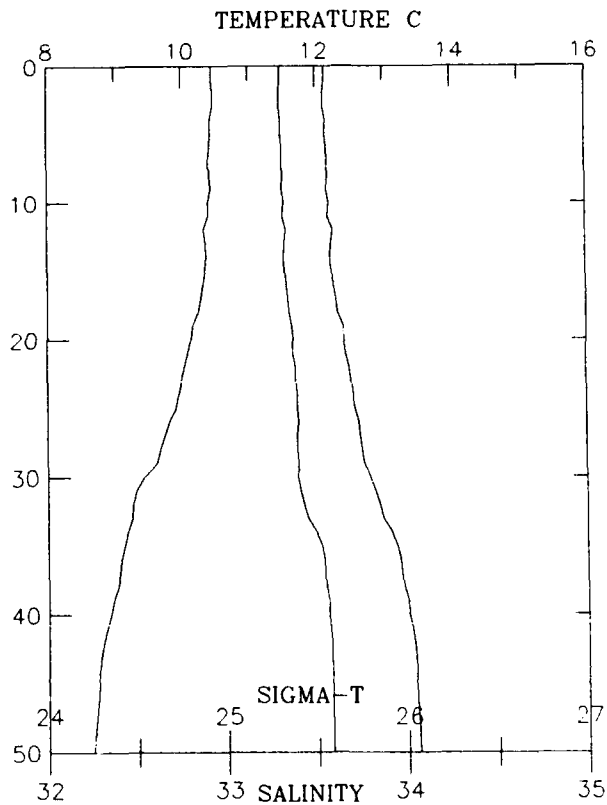
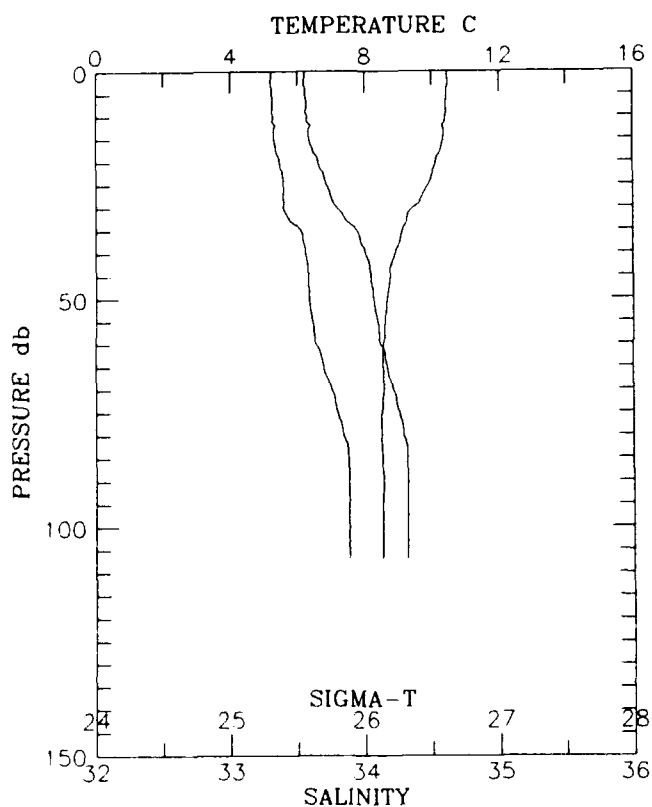
PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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0.0	E	12.713	32.885	24.811	0.0000	0.0
10.0		12.699	32.885	24.814	0.0316	0.0
20.0		11.048	33.031	25.234	0.0618	0.0
30.0		9.984	33.093	25.466	0.0884	0.0
40.0		9.517	33.351	25.745	0.1124	0.0
50.0		9.196	33.419	25.849	0.1348	0.0
60.0		9.065	33.489	25.925	0.1562	0.0
70.0		8.715	33.574	26.046	0.1768	0.0
80.0		8.504	33.675	26.158	0.1961	0.0
90.0		8.442	33.784	26.253	0.2146	0.0
100.0		8.402	33.830	26.295	0.2326	0.0
110.0		8.281	33.896	26.365	0.2499	0.0
120.0		8.144	33.937	26.418	0.2667	0.0
130.0		8.105	33.958	26.440	0.2831	0.0



Cruise W8905 Station # 75 Depth m: 113 Time: 1989-05-09 01:10  
 Position: 38 30.90'N 123 25.10'W Depth Deck Offset: -0.25

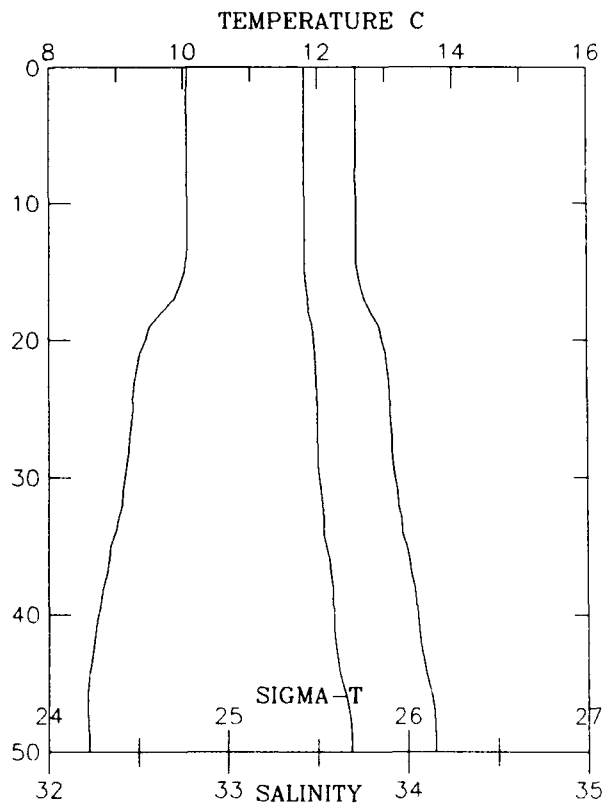
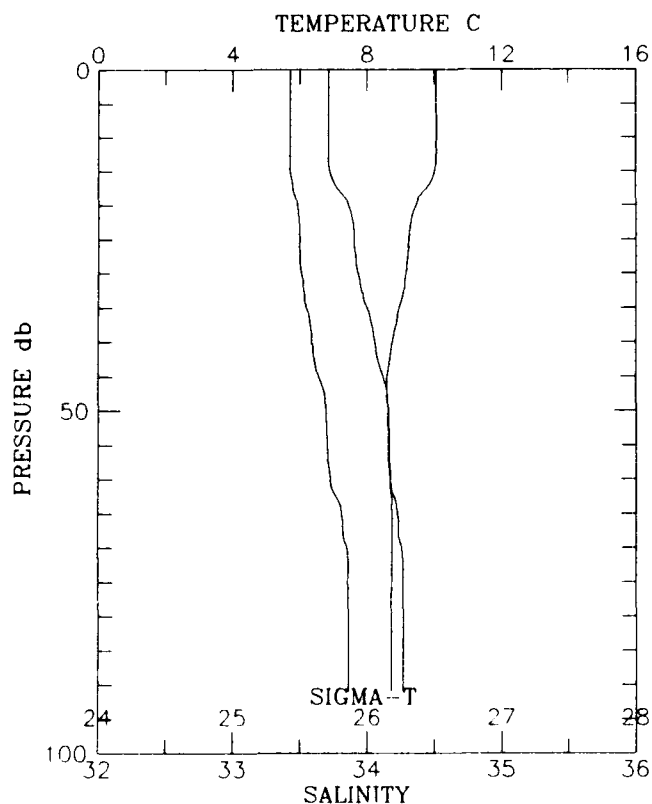
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.465	33.305	25.550	0.0000
10.0		10.399	33.321	25.574	0.0245
20.0		10.136	33.368	25.655	0.0487
30.0		9.425	33.391	25.791	0.0717
40.0		8.913	33.560	26.004	0.0929
50.0		8.661	33.582	26.061	0.1129
60.0		8.562	33.636	26.118	0.1325
70.0		8.550	33.750	26.210	0.1514
80.0		8.493	33.838	26.287	0.1694
90.0		8.533	33.880	26.314	0.1869
100.0		8.529	33.881	26.315	0.2045
107.0		8.526	33.881	26.316	0.2167





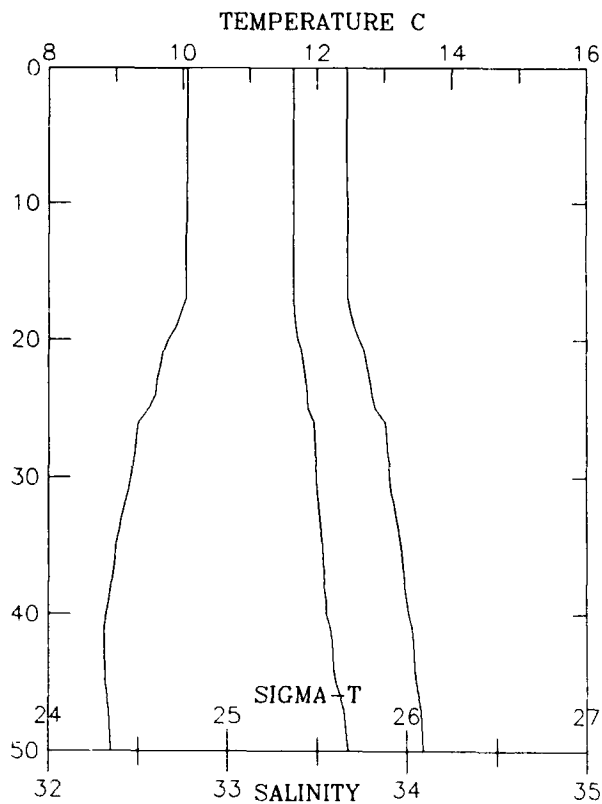
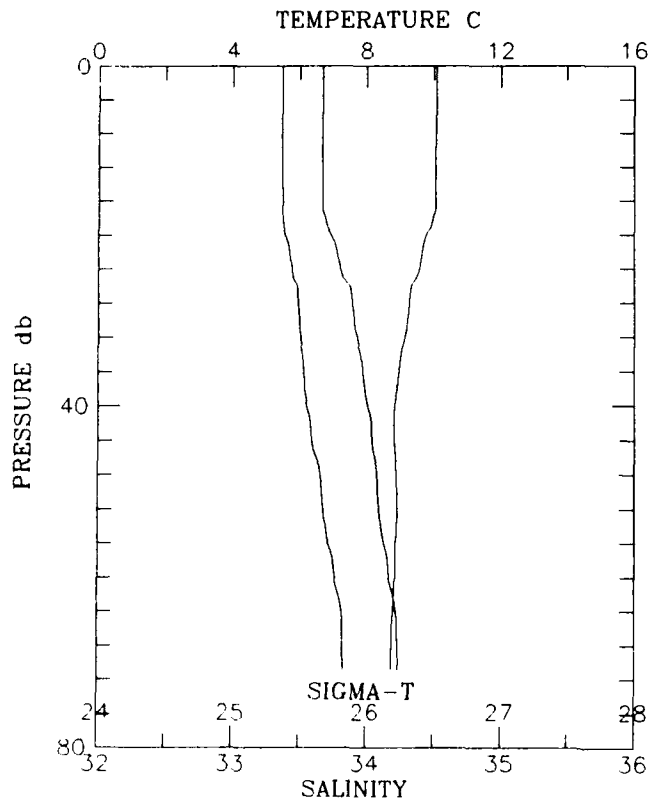
Cruise W8905 Station # 76 Depth m: 95 Time: 1989-05-09 01:41  
 Position: 38 32.40'N 123 23.00'W Depth Deck Offset: -0.25

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 10.058	33.428	25.715	0.0000	0.0
5.0	10.060	33.428	25.715	0.0115	0.0
10.0	10.064	33.427	25.714	0.0230	0.0
15.0	10.018	33.428	25.722	0.0346	0.0
20.0	9.443	33.478	25.856	0.0458	0.0
25.0	9.245	33.498	25.903	0.0565	0.0
30.0	9.133	33.509	25.930	0.0671	0.0
35.0	8.918	33.548	25.994	0.0775	0.0
40.0	8.732	33.587	26.054	0.0875	0.0
45.0	8.583	33.635	26.114	0.0974	0.0
50.0	8.598	33.687	26.153	0.1069	0.0
55.0	8.616	33.699	26.159	0.1164	0.0
60.0	8.666	33.722	26.170	0.1258	0.0
65.0	8.730	33.803	26.223	0.1351	0.0
70.0	8.741	33.848	26.257	0.1442	0.0
75.0	8.726	33.855	26.265	0.1532	0.0
80.0	8.722	33.857	26.267	0.1622	0.0
85.0	8.722	33.858	26.268	0.1711	0.0
90.0	8.722	33.858	26.268	0.1801	0.0
91.0	8.722	33.858	26.268	0.1819	0.0



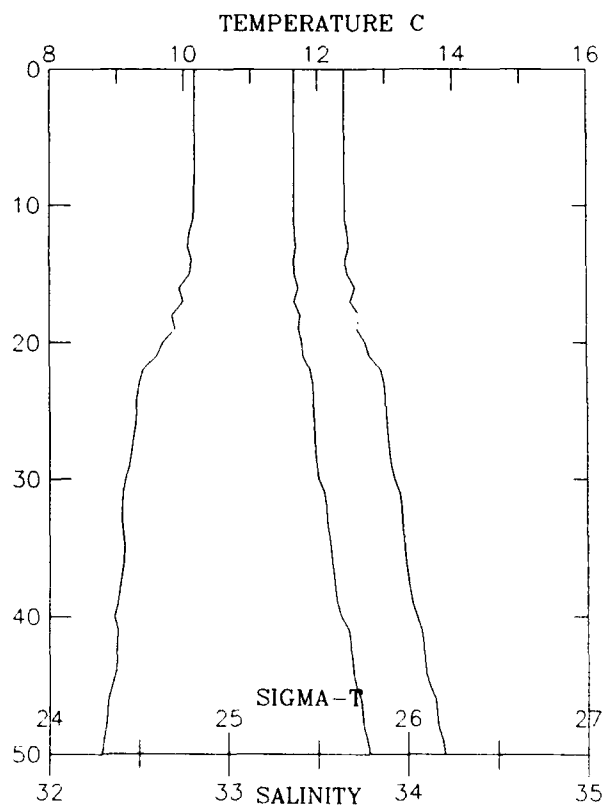
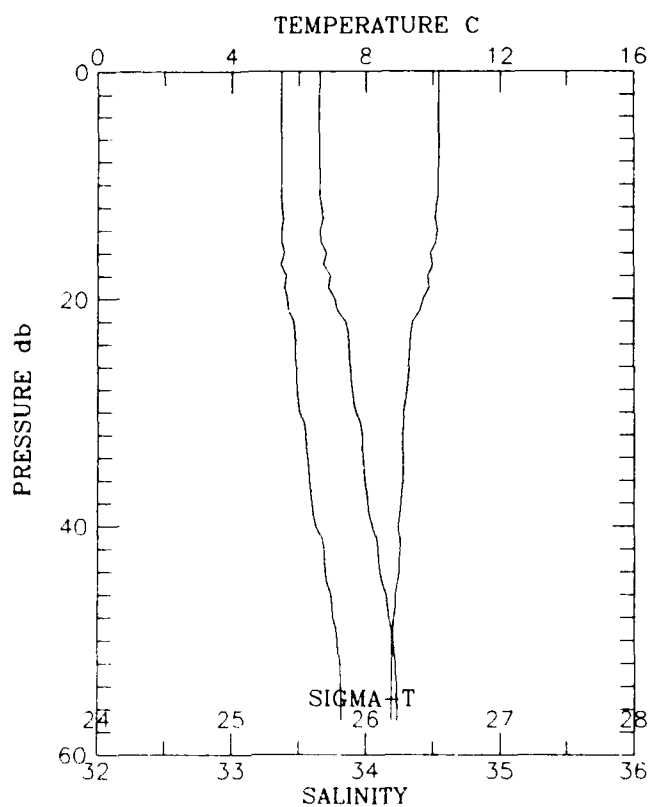
Cruise W8905 Station # 77 Depth m: 76 Time: 1989-05-09 02:08  
 Position: 38 33.70'N 123 21.80'W Depth Deck Offset: -0.30

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.073	33.370	25.668	0.0000	0.0
5.0		10.070	33.369	25.667	0.0117	0.0
10.0		10.061	33.370	25.670	0.0235	0.0
15.0		10.050	33.371	25.672	0.0352	0.0
20.0		9.780	33.393	25.735	0.0469	0.0
25.0		9.493	33.450	25.826	0.0581	0.0
30.0		9.229	33.499	25.906	0.0688	0.0
35.0		8.998	33.530	25.968	0.0793	0.0
40.0		8.857	33.554	26.008	0.0896	0.0
45.0		8.845	33.603	26.049	0.0996	0.0
50.0		8.924	33.670	26.089	0.1095	0.0
55.0		8.905	33.709	26.122	0.1192	0.0
60.0		8.879	33.765	26.170	0.1287	0.0
65.0		8.790	33.823	26.230	0.1380	0.0
70.0		8.752	33.829	26.240	0.1471	0.0
71.0		8.753	33.828	26.239	0.1489	0.0



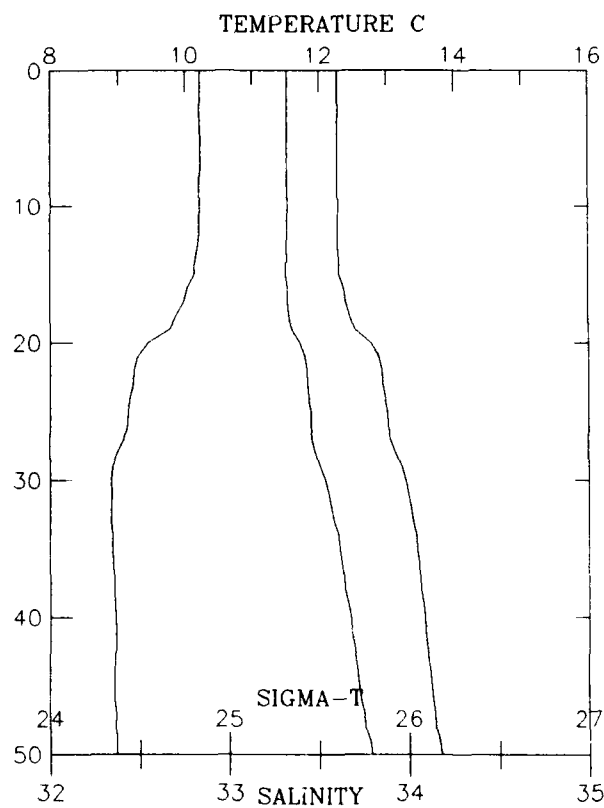
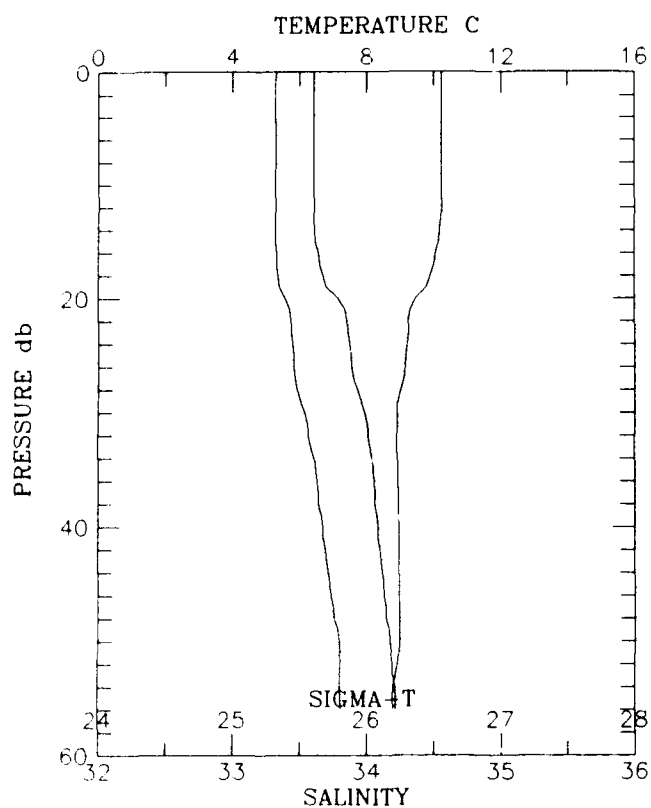
Cruise W8905 Station # 78 Depth m: 62 Time: 1989-05-09 02:29  
 Position: 38 34.00'N 123 20.80'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 10.168	33.370	25.652	0.0000	0.0
5.0	10.169	33.369	25.651	0.0118	0.0
10.0	10.156	33.369	25.653	0.0236	0.0
15.0	10.089	33.371	25.666	0.0354	0.0
20.0	9.697	33.414	25.765	0.0470	0.0
25.0	9.292	33.476	25.878	0.0579	0.0
30.0	9.130	33.506	25.928	0.0686	0.0
35.0	9.108	33.571	25.982	0.0789	0.0
40.0	8.963	33.627	26.049	0.0891	0.0
45.0	8.929	33.709	26.119	0.0989	0.0
50.0	8.775	33.786	26.203	0.1083	0.0
55.0	8.754	33.814	26.228	0.1175	0.0
57.0	8.747	33.816	26.231	0.1211	0.0



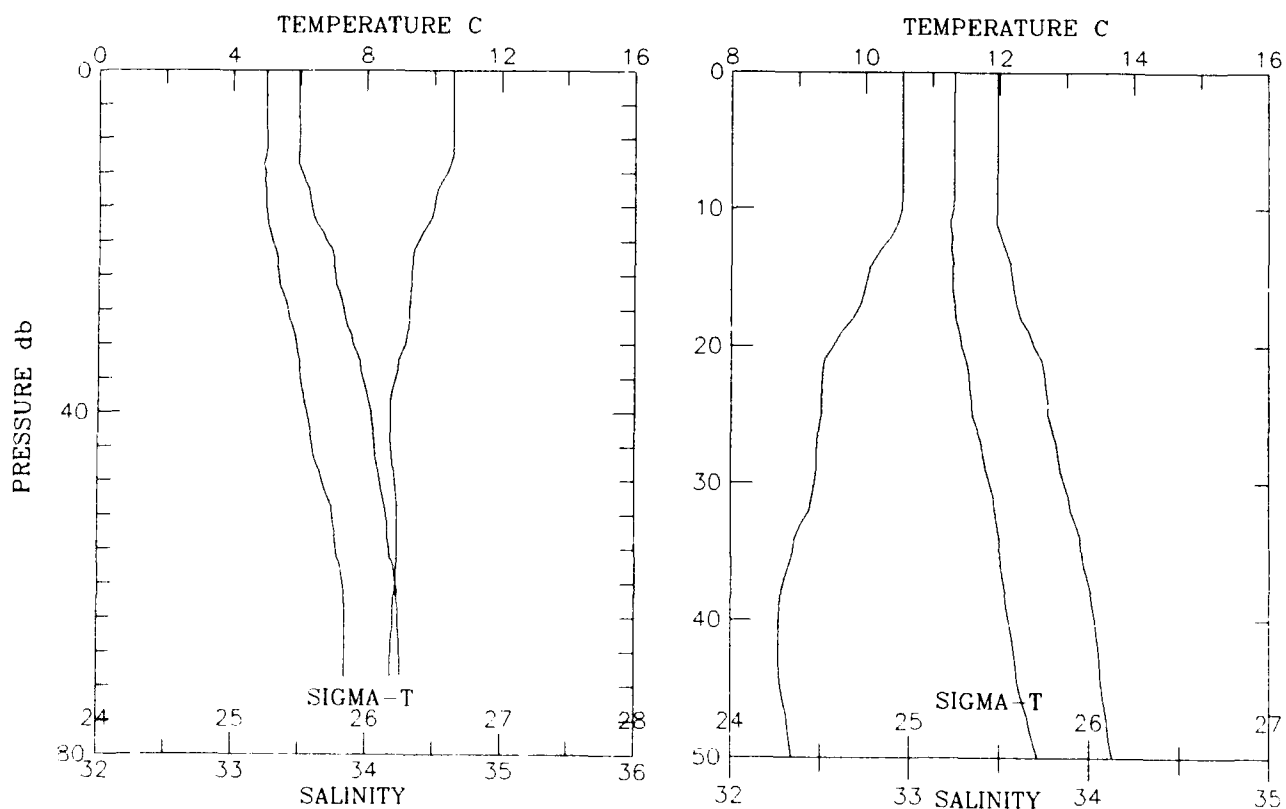
Cruise W8905 Station # 79 Depth m: 62 Time: 1989-05-09 03:33  
 Position: 38 28.30'N 123 14.60'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 10.231	33.323	25.604	0.0000	0.0
5.0	10.234	33.323	25.604	0.0120	0.0
10.0	10.222	33.322	25.605	0.0241	0.0
15.0	10.154	33.319	25.614	0.0361	0.0
20.0	9.463	33.395	25.787	0.0479	0.0
25.0	9.159	33.456	25.884	0.0588	0.0
30.0	8.911	33.536	25.986	0.0693	0.0
35.0	8.932	33.619	26.048	0.0794	0.0
40.0	8.968	33.675	26.086	0.0893	0.0
45.0	8.958	33.724	26.126	0.0990	0.0
50.0	8.990	33.794	26.176	0.1085	0.0
55.0	8.774	33.804	26.217	0.1178	0.0
56.0	8.787	33.807	26.218	0.1196	0.0



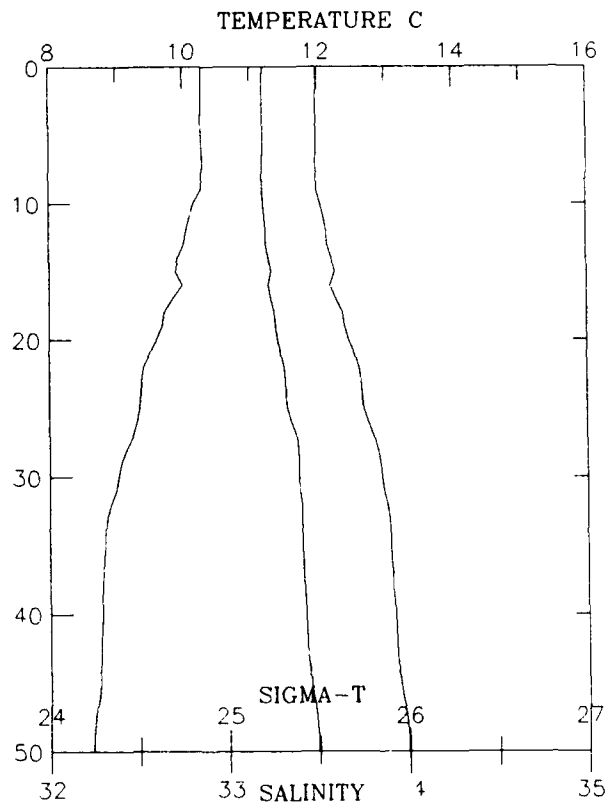
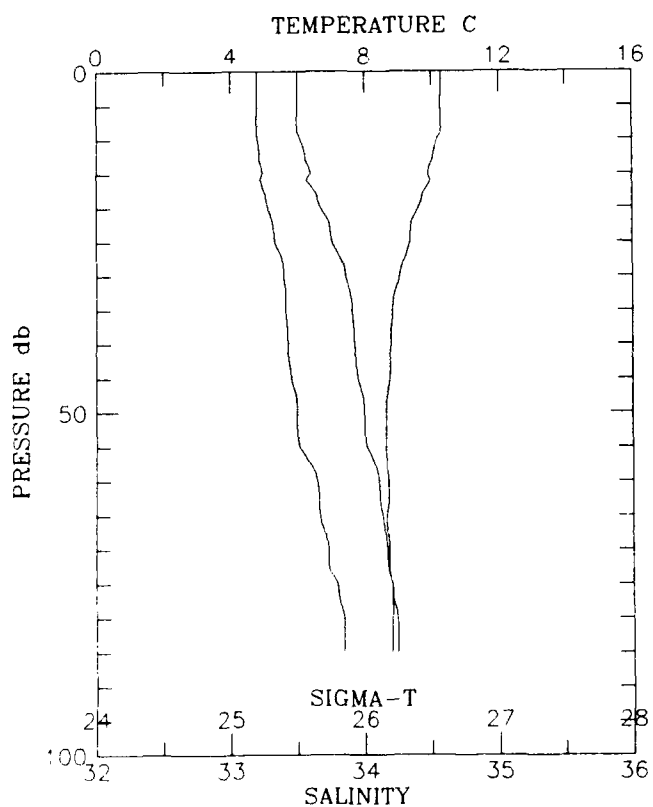
Cruise W8905 Station # 80 Depth m: 77 Time: 1989-05-09 03:55  
 Position: 38 27.70'N 123 15.20'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 10.556	33.248	25.490	0.0000	0.0
5.0	10.554	33.246	25.489	0.0126	0.0
10.0	10.552	33.243	25.487	0.0252	0.0
15.0	10.041	33.242	25.573	0.0376	0.0
20.0	9.530	33.289	25.694	0.0496	0.0
25.0	9.343	33.349	25.771	0.0610	0.0
30.0	9.251	33.444	25.860	0.0720	0.0
35.0	8.924	33.500	25.956	0.0826	0.0
40.0	8.709	33.554	26.031	0.0928	0.0
45.0	8.746	33.607	26.067	0.1028	0.0
50.0	8.909	33.713	26.125	0.1126	0.0
55.0	8.938	33.771	26.166	0.1220	0.0
60.0	8.862	33.825	26.220	0.1314	0.0
65.0	8.802	33.842	26.243	0.1405	0.0
70.0	8.731	33.844	26.255	0.1495	0.0
71.0	8.728	33.843	26.255	0.1513	0.0



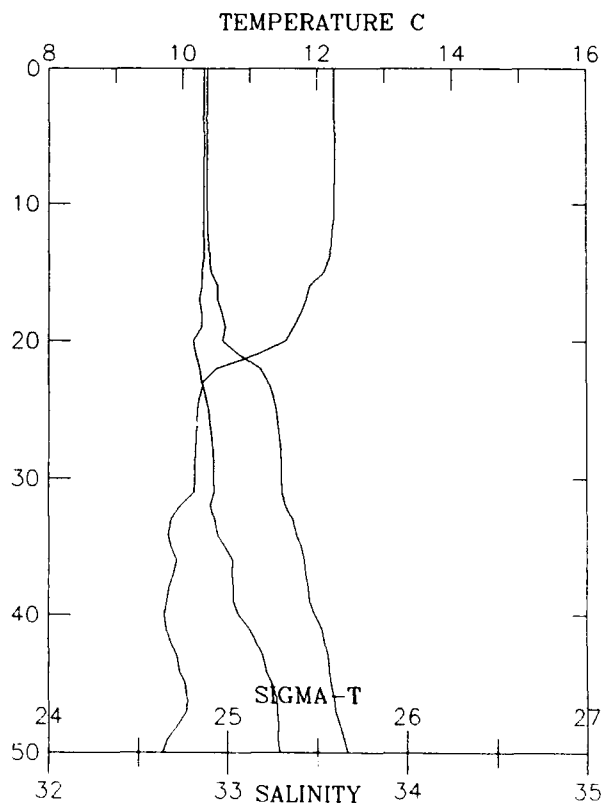
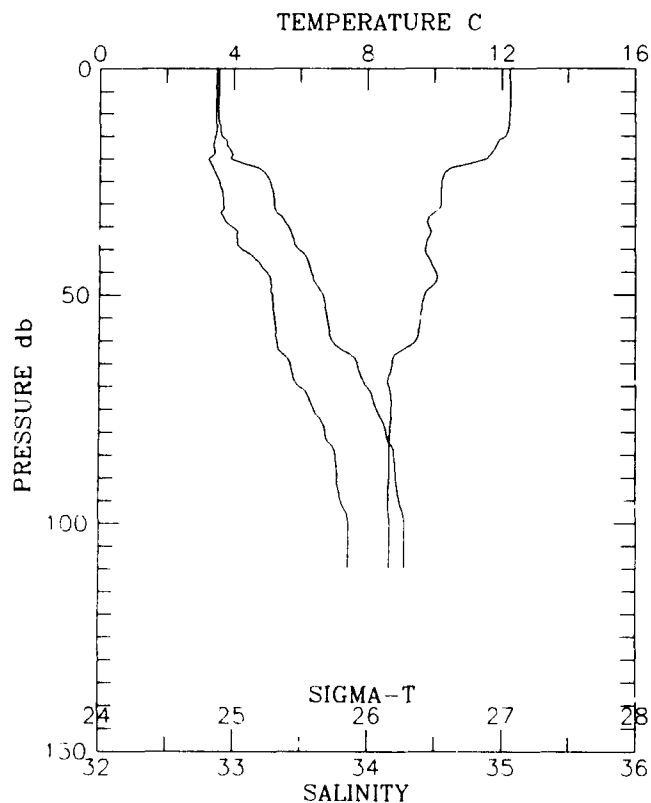
Cruise W8905 Station # 81 Depth m: 94 Time: 1989-05-09 04:20  
 Position: 38 26.30'N 123 17.00'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.290	33.199	25.498	0.0000
5.0		10.276	33.198	25.499	0.0125
10.0		10.160	33.198	25.519	0.0251
15.0		9.890	33.237	25.595	0.0374
20.0		9.599	33.274	25.671	0.0494
25.0		9.347	33.329	25.755	0.0608
30.0		9.024	33.391	25.855	0.0719
35.0		8.817	33.409	25.901	0.0826
40.0		8.769	33.425	25.921	0.0933
45.0		8.734	33.451	25.947	0.1038
50.0		8.637	33.495	25.996	0.1141
55.0		8.611	33.507	26.010	0.1243
60.0		8.697	33.641	26.102	0.1342
65.0		8.641	33.666	26.130	0.1439
70.0		8.717	33.726	26.165	0.1534
75.0		8.815	33.794	26.203	0.1628
80.0		8.798	33.837	26.239	0.1720
85.0		8.797	33.837	26.240	0.1811



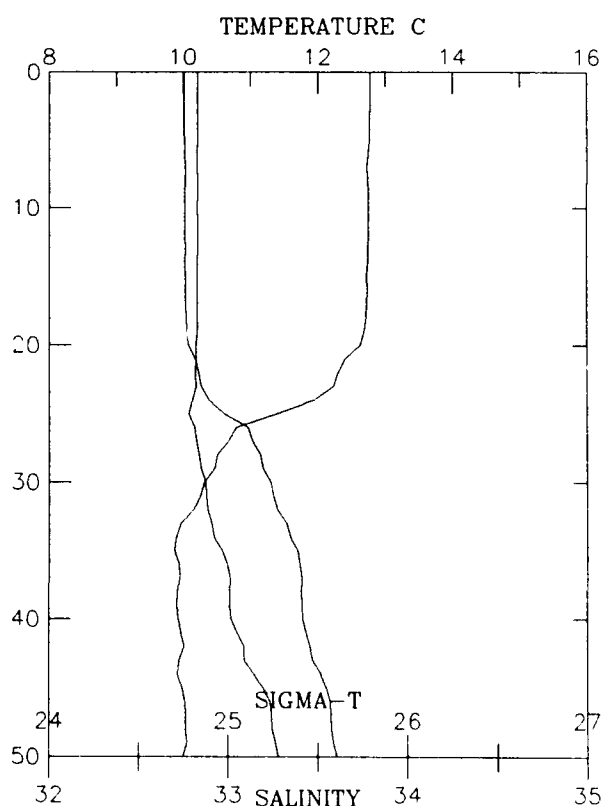
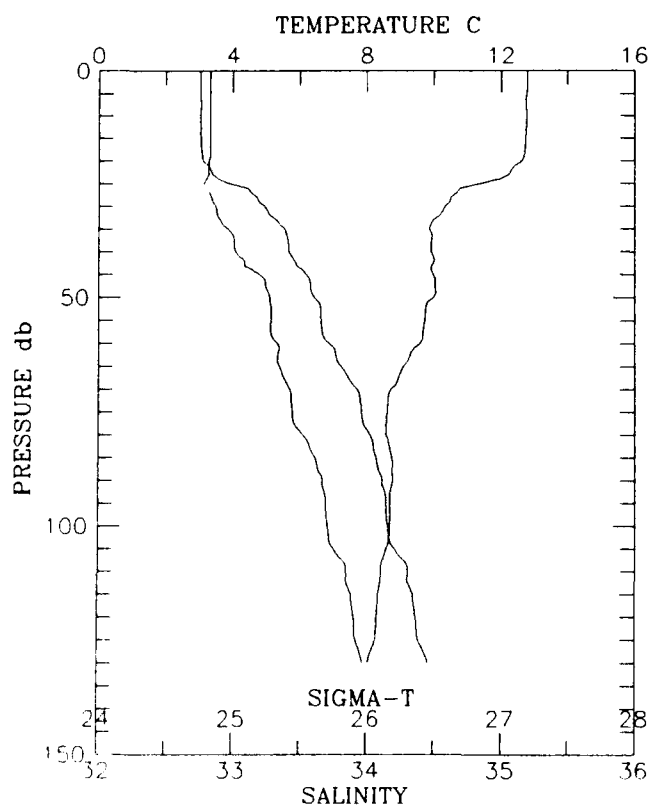
Cruise W8905 Station # 82 Depth m: 119 Time: 1989-05-09 05:00  
 Position: 38 23.40'N 123 21.00'W Depth Deck Offset: -0.30

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	12.254	32.872	24.889	0.0000	0.0
10.0		12.255	32.869	24.887	0.0309	0.0
20.0		11.539	32.810	24.974	0.0615	0.0
30.0		10.181	32.924	25.302	0.0892	0.0
40.0		9.721	33.062	25.486	0.1153	0.0
50.0		9.696	33.290	25.668	0.1397	0.0
60.0		9.442	33.324	25.735	0.1630	0.0
70.0		8.648	33.488	25.989	0.1844	0.0
80.0		8.670	33.683	26.139	0.2042	0.0
90.0		8.657	33.776	26.214	0.2229	0.0
100.0		8.659	33.856	26.276	0.2411	0.0
110.0		8.659	33.857	26.277	0.2590	0.0



Cruise W8905 Station # 83 Depth m: 138 Time: 1989-05-09 05:34  
 Position: 38 21.20'N 123 23.80'W Depth Deck Offset: -0.30

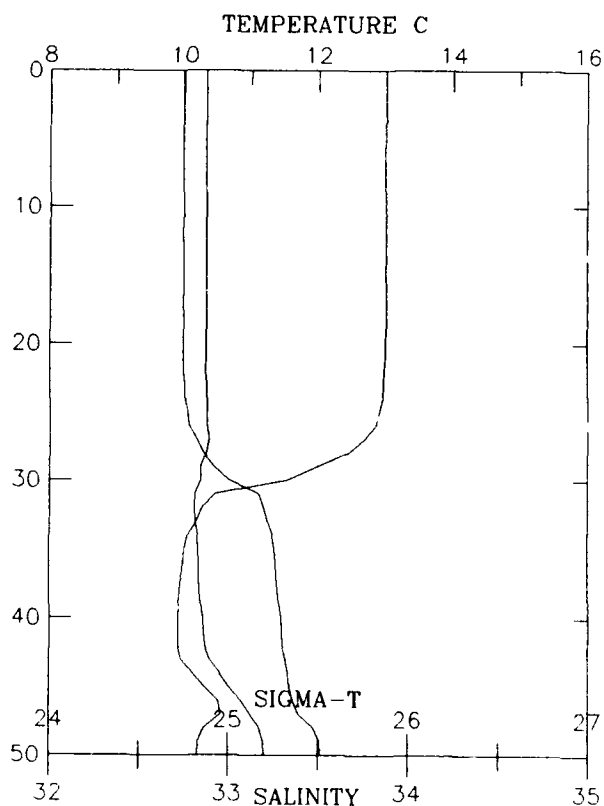
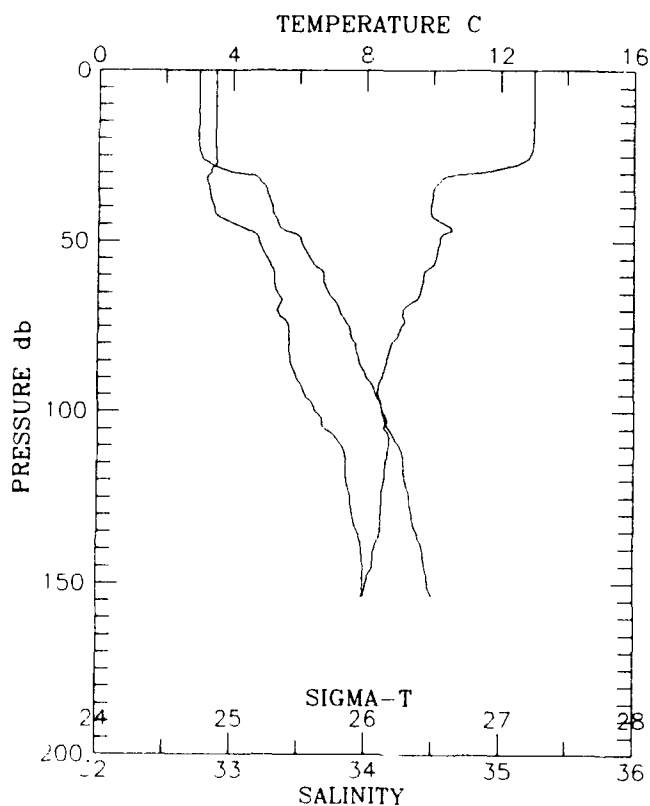
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	12.780	32.831	24.756	0.0000
10.0		12.761	32.829	24.759	0.0321
20.0		12.633	32.822	24.778	0.0642
30.0		10.319	32.874	25.239	0.0941
40.0		9.922	33.018	25.418	0.1207
50.0		9.999	33.277	25.608	0.1456
60.0		9.595	33.332	25.717	0.1692
70.0		8.712	33.429	25.933	0.1914
80.0		8.587	33.521	26.024	0.2122
90.0		8.766	33.670	26.114	0.2320
100.0		8.676	33.708	26.157	0.2512
110.0		8.429	33.846	26.303	0.2696
120.0		8.311	33.908	26.370	0.2870
130.0		8.047	33.970	26.458	0.3037





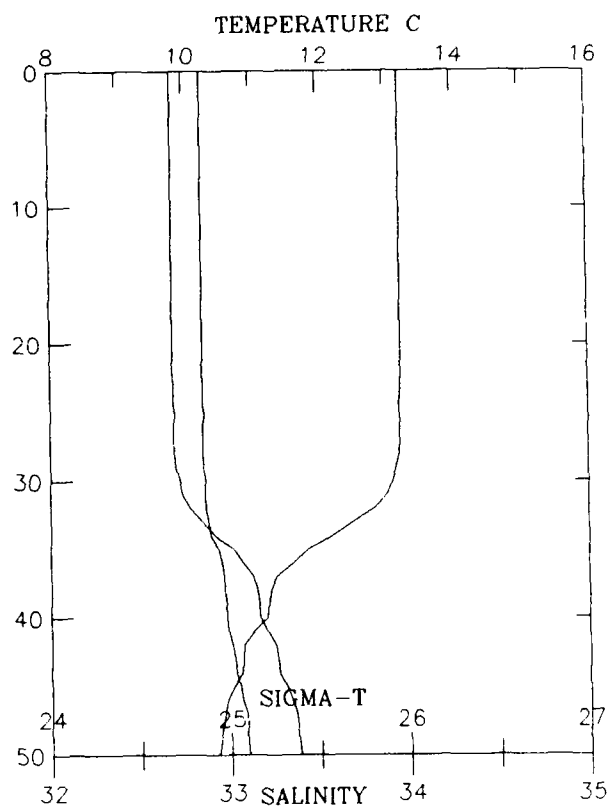
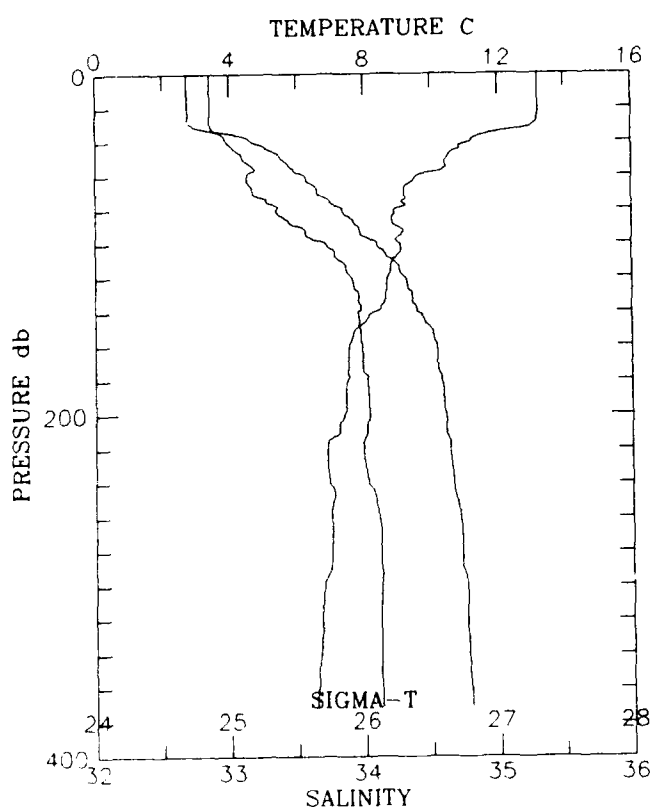
Cruise W8905 Station # 84 Depth m: 163 Time: 1989-05-09 06:06  
 Position: 38 19.80'N 123 25.10'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 13.002	32.876	24.748	0.0000	0.0
10.0	13.004	32.875	24.747	0.0322	0.0
20.0	13.003	32.875	24.747	0.0645	0.0
30.0	11.540	32.846	25.002	0.0963	0.0
40.0	9.916	32.858	25.294	0.1240	0.0
50.0	10.205	33.200	25.513	0.1504	0.0
60.0	9.731	33.315	25.681	0.1747	0.0
70.0	9.109	33.336	25.798	0.1977	0.0
80.0	8.766	33.430	25.926	0.2195	0.0
90.0	8.505	33.478	26.003	0.2404	0.0
100.0	8.475	33.614	26.115	0.2602	0.0
110.0	8.674	33.819	26.245	0.2791	0.0
120.0	8.563	33.856	26.291	0.2970	0.0
130.0	8.458	33.901	26.342	0.3146	0.0
140.0	8.281	33.975	26.427	0.3315	0.0
150.0	8.038	33.983	26.470	0.3479	0.0
154.0	7.884	33.992	26.500	0.3543	0.0



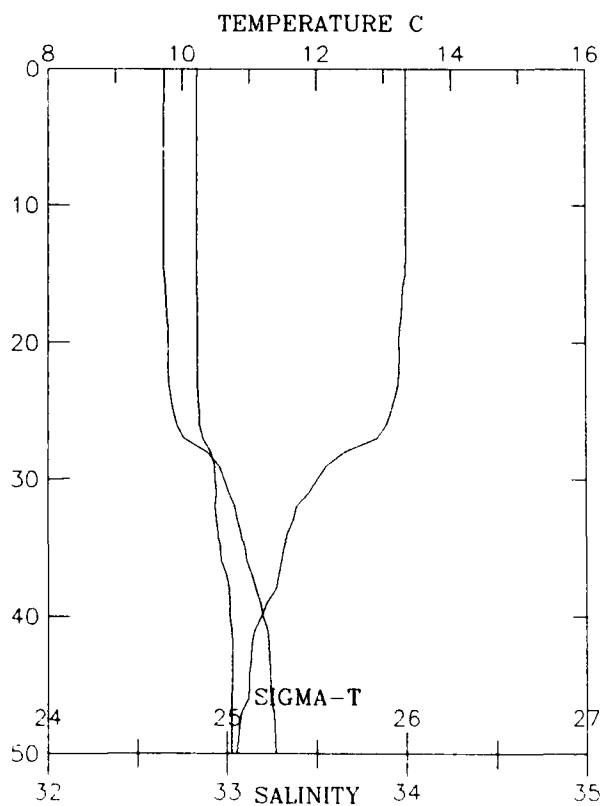
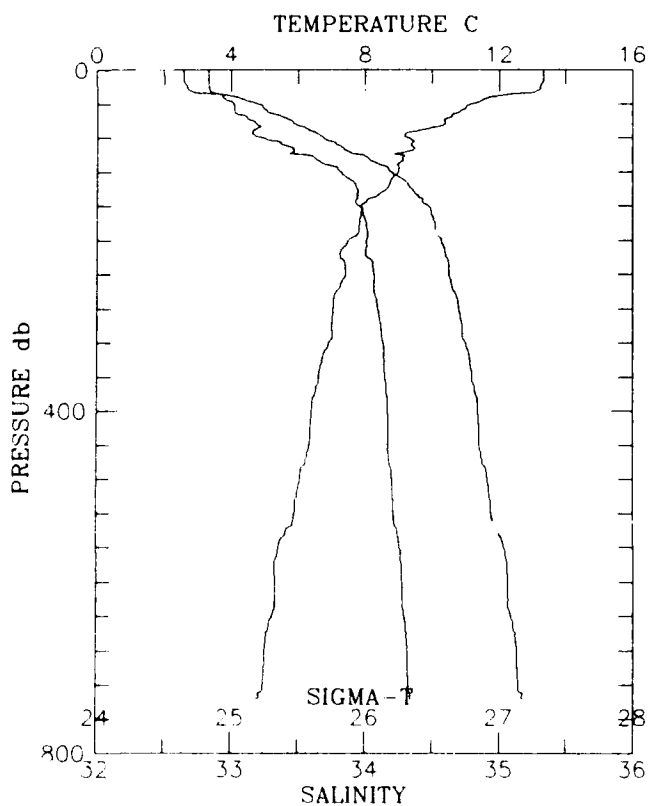
Cruise W8905 Station # 85 Depth m: 379 Time: 1989-05-09 07:17  
 Position: 38 15.70'N 123 30.80'W Depth Deck Offset: -0.25

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 13.225	32.853	24.686	0.0000	0.0
10.0	13.224	32.851	24.685	0.0328	0.0
20.0	13.224	32.852	24.685	0.0657	0.0
30.0	13.087	32.863	24.721	0.0985	0.0
40.0	11.221	32.981	25.165	0.1287	0.0
50.0	10.475	33.095	25.385	0.1557	0.0
60.0	9.576	33.129	25.561	0.1813	0.0
80.0	8.913	33.343	25.834	0.2283	0.0
100.0	9.092	33.720	26.101	0.2703	0.0
150.0	7.747	33.969	26.501	0.3581	0.0
200.0	7.381	34.032	26.604	0.4345	0.0
250.0	7.056	34.086	26.692	0.5075	0.0
300.0	6.773	34.121	26.758	0.5769	0.0
371.0	6.535	34.124	26.791	0.6730	0.0



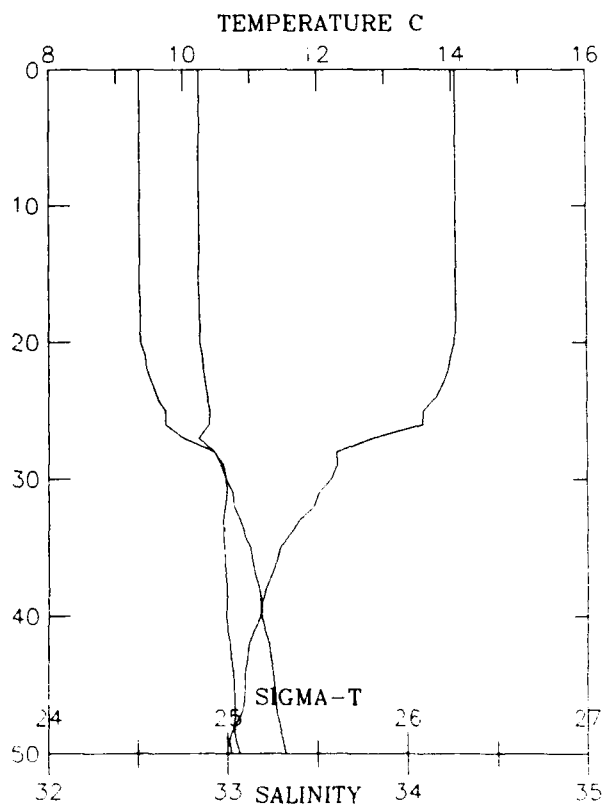
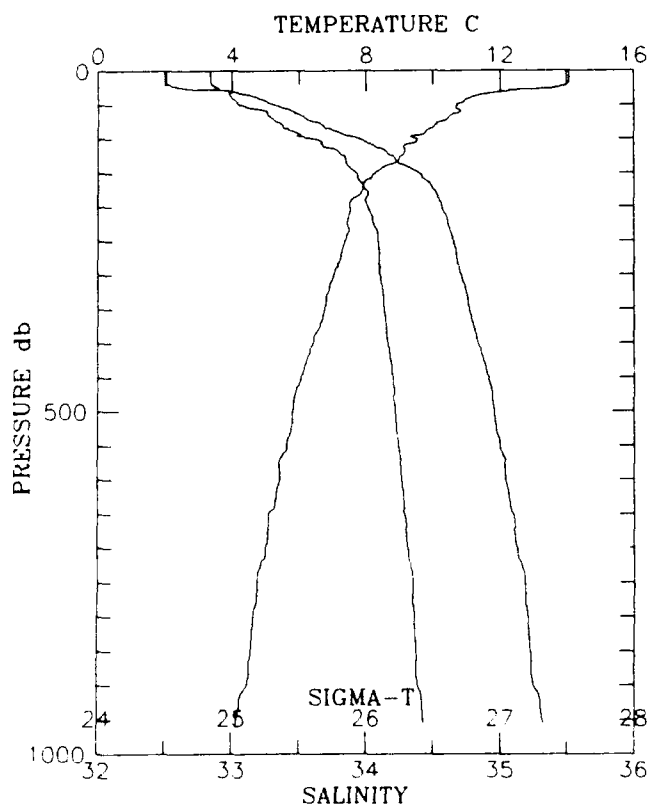
Cruise W8905 Station # 86 Depth m: 745 Time: 1989-05-09 08:20  
 Position: 38 13.70'N 123 33.80'W Depth Deck Offset: -0.20

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	13.332	32.833	24.649	0.0000
10.0		13.332	32.831	24.647	0.0332
20.0		13.227	32.837	24.673	0.0663
30.0		12.010	32.934	24.983	0.0986
40.0		11.178	33.015	25.199	0.1276
50.0		10.813	33.025	25.271	0.1552
60.0		10.374	33.160	25.453	0.1815
80.0		9.302	33.237	25.690	0.2306
100.0		9.023	33.554	25.982	0.2752
150.0		8.276	33.935	26.396	0.3673
200.0		7.487	34.007	26.569	0.4467
250.0		7.282	34.065	26.644	0.5212
300.0		7.011	34.120	26.724	0.5923
400.0		6.404	34.170	26.845	0.7262
500.0		5.977	34.207	26.929	0.8526
600.0		5.317	34.280	27.068	0.9676
700.0		4.998	34.320	27.136	1.0743
737.0		4.756	34.343	27.182	1.1123



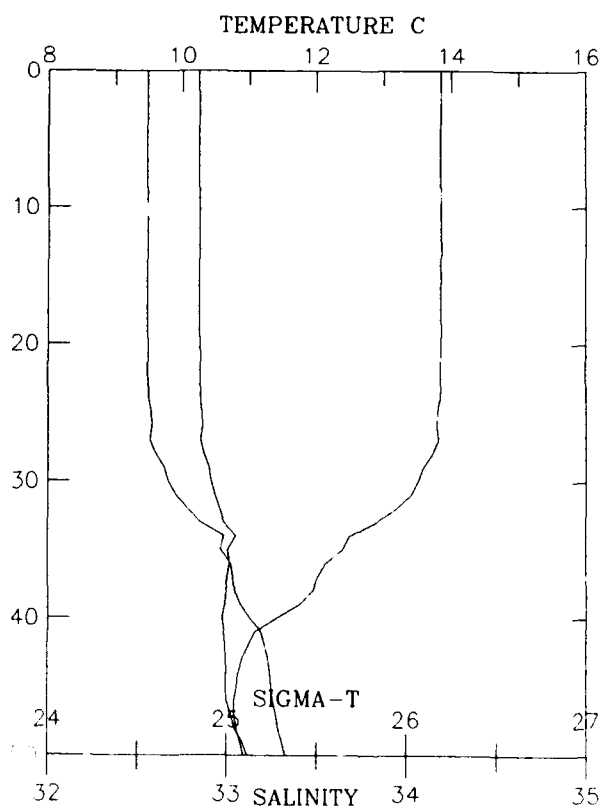
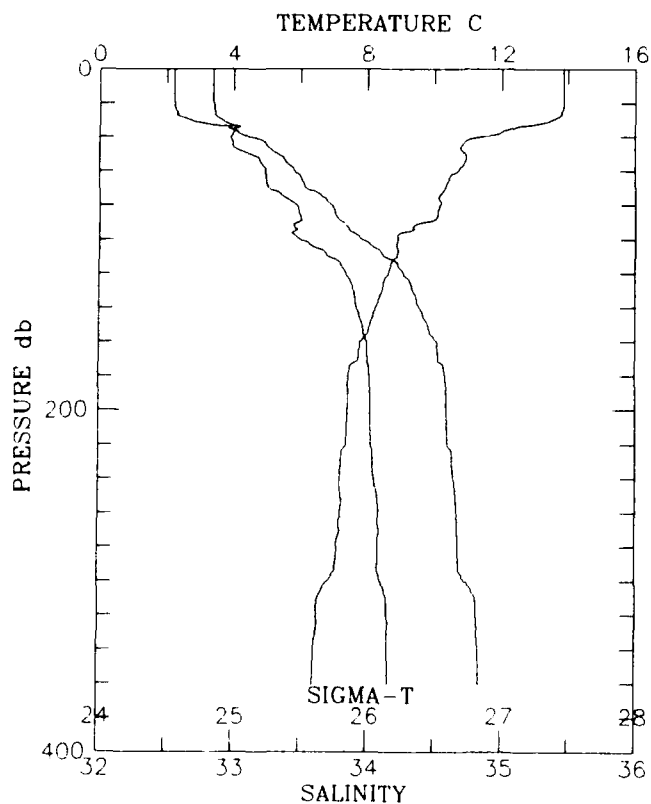
Cruise W8905 Station # 87 Depth m: 965 Time: 1989-05-09 09:35  
 Position: 38 8.10'N 123 34.10'W Depth Deck Offset: -0.20

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	14.062	32.842	24.508	0.0000
10.0		14.062	32.841	24.507	0.0345
20.0		14.040	32.845	24.515	0.0691
30.0		12.206	32.991	24.991	0.1018
40.0		11.147	32.993	25.187	0.1307
50.0		10.724	33.069	25.321	0.1582
60.0		10.820	33.259	25.452	0.1844
80.0		10.076	33.372	25.669	0.2337
100.0		9.489	33.606	25.948	0.2786
150.0		8.266	33.923	26.389	0.3729
200.0		7.517	34.012	26.569	0.4525
250.0		7.362	34.089	26.651	0.5269
300.0		7.040	34.106	26.710	0.5986
400.0		6.417	34.163	26.838	0.7338
500.0		5.819	34.218	26.957	0.8573
600.0		5.432	34.267	27.043	0.9726
700.0		5.007	34.313	27.130	1.0804
800.0		4.645	34.362	27.210	1.1806
900.0		4.465	34.386	27.249	1.2767
956.0		4.118	34.426	27.318	1.3270



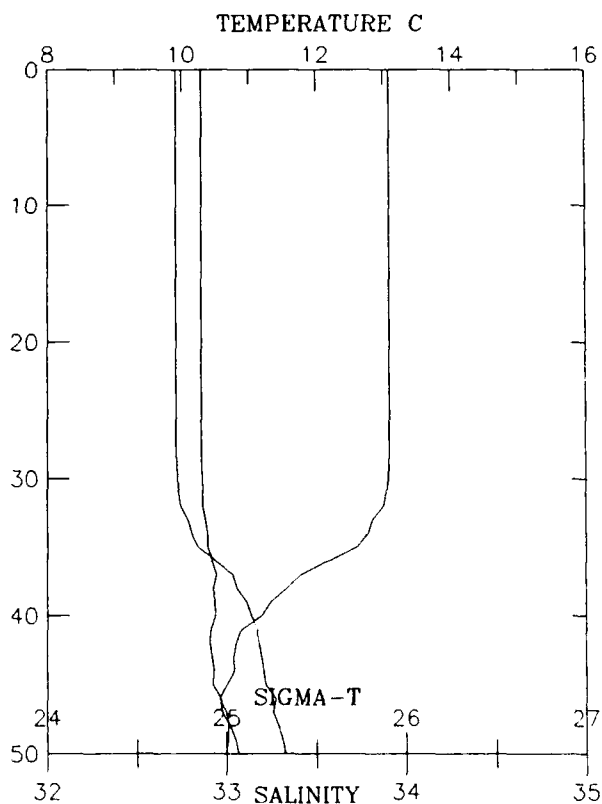
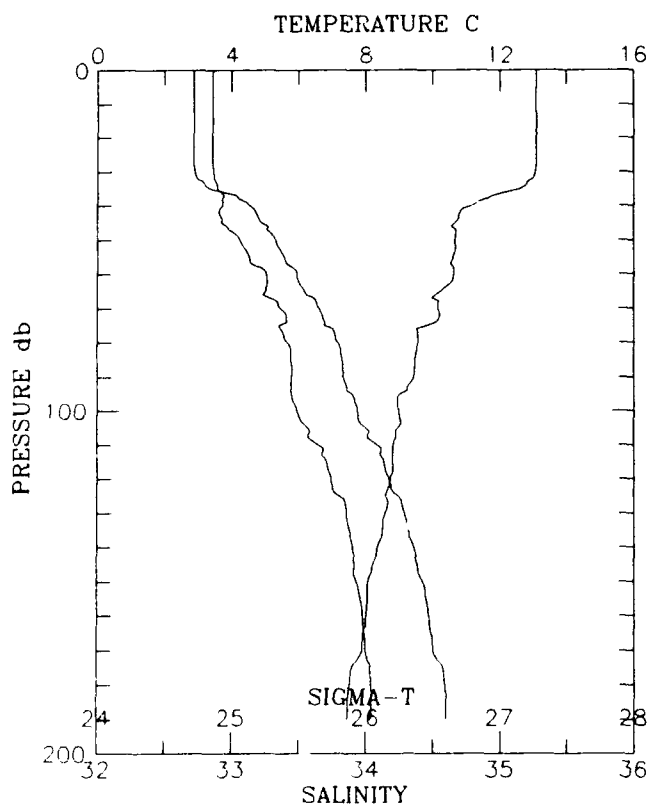
Cruise W8905 Station # 88 Depth m: 379 Time: 1989-05-09 11:46  
 Position: 38 9.30'N 123 28.20'W Depth Deck Offset: -0.20

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	13.845	32.843	24.553	0.0000	0.0
10.0		13.845	32.846	24.556	0.0341	0.0
20.0		13.847	32.851	24.559	0.0682	0.0
30.0		13.507	32.910	24.673	0.1020	0.0
40.0		11.410	32.974	25.125	0.1325	0.0
50.0		10.913	33.116	25.325	0.1601	0.0
60.0		10.719	33.240	25.455	0.1862	0.0
80.0		10.152	33.470	25.732	0.2352	0.0
100.0		8.905	33.494	25.954	0.2795	0.0
150.0		8.073	33.964	26.450	0.3693	0.0
200.0		7.419	34.024	26.592	0.4464	0.0
250.0		7.221	34.078	26.662	0.5204	0.0
300.0		6.848	34.101	26.732	0.5919	0.0
361.0		6.408	34.163	26.839	0.6715	0.0



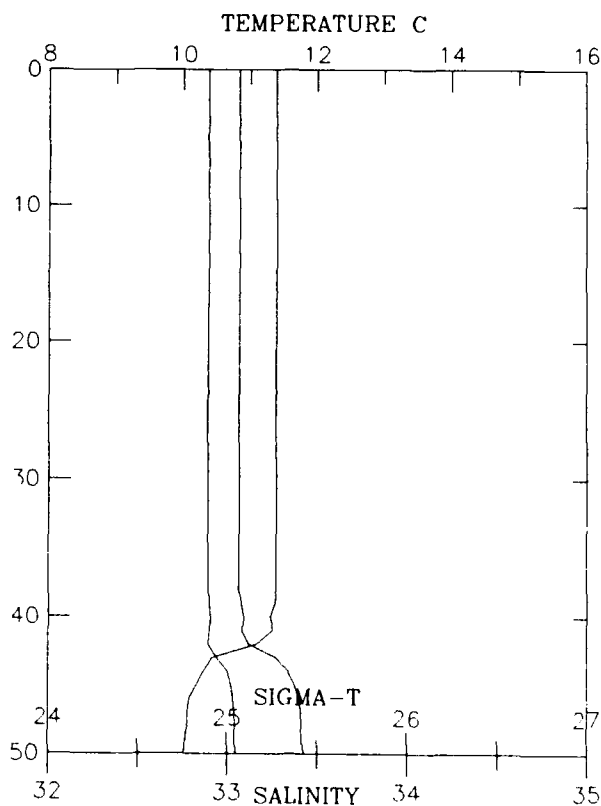
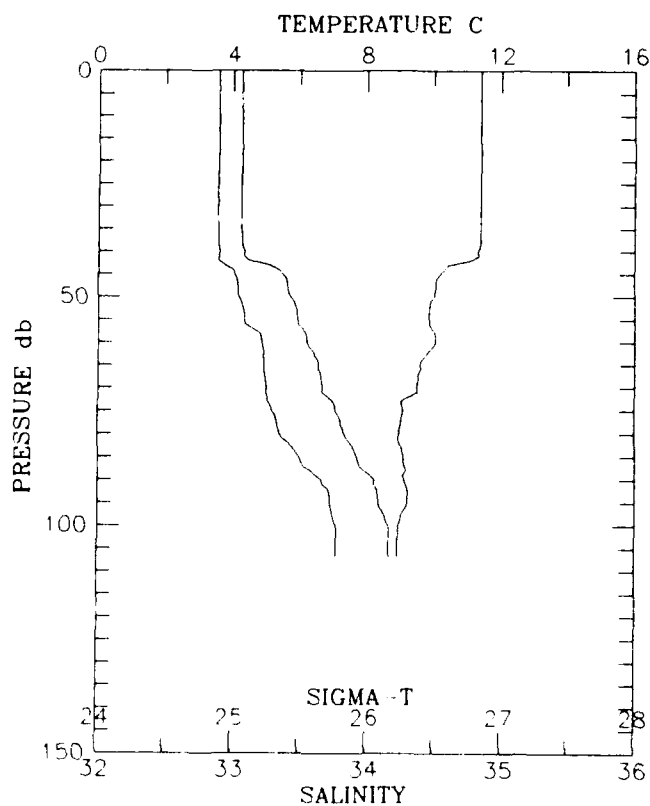
Cruise W8905 Station # 89 Depth m: 201 Time: 1989-05-09 13:00  
 Position: 38 10.50'N 123 22.10'W Depth Deck Offset: -0.20

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 13.091	32.862	24.719	0.0000	0.0
10.0	13.087	32.861	24.719	0.0325	0.0
20.0	13.088	32.861	24.719	0.0651	0.0
30.0	13.068	32.865	24.726	0.0976	0.0
40.0	11.182	32.938	25.138	0.1285	0.0
50.0	10.656	33.062	25.328	0.1562	0.0
60.0	10.610	33.256	25.487	0.1824	0.0
70.0	10.152	33.363	25.649	0.2070	0.0
80.0	9.547	33.413	25.788	0.2302	0.0
90.0	9.439	33.447	25.832	0.2524	0.0
100.0	8.979	33.487	25.937	0.2740	0.0
110.0	8.834	33.647	26.085	0.2946	0.0
120.0	8.738	33.739	26.172	0.3138	0.0
130.0	8.589	33.860	26.290	0.3322	0.0
140.0	8.353	33.904	26.360	0.3497	0.0
150.0	8.066	33.931	26.425	0.3666	0.0
160.0	8.016	33.977	26.468	0.3830	0.0
170.0	7.895	33.998	26.503	0.3990	0.0
180.0	7.515	34.038	26.589	0.4143	0.0
190.0	7.461	34.035	26.595	0.4292	0.0



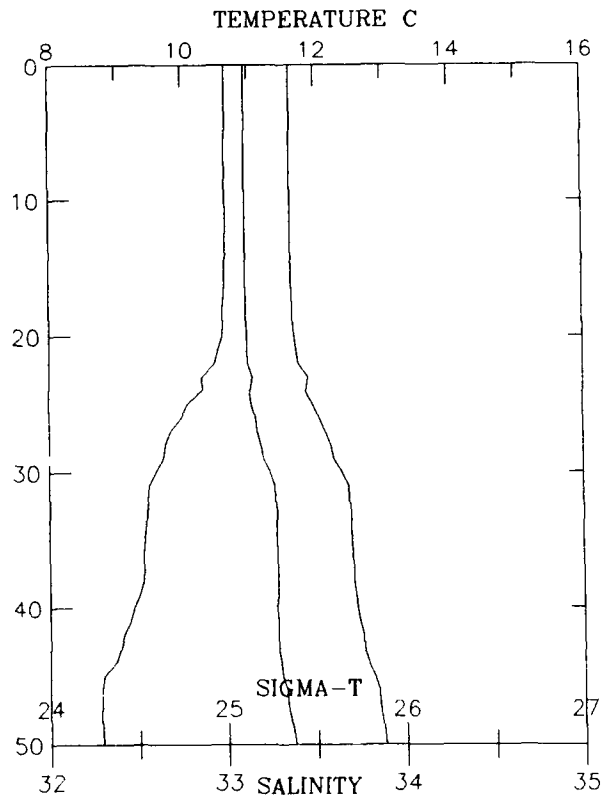
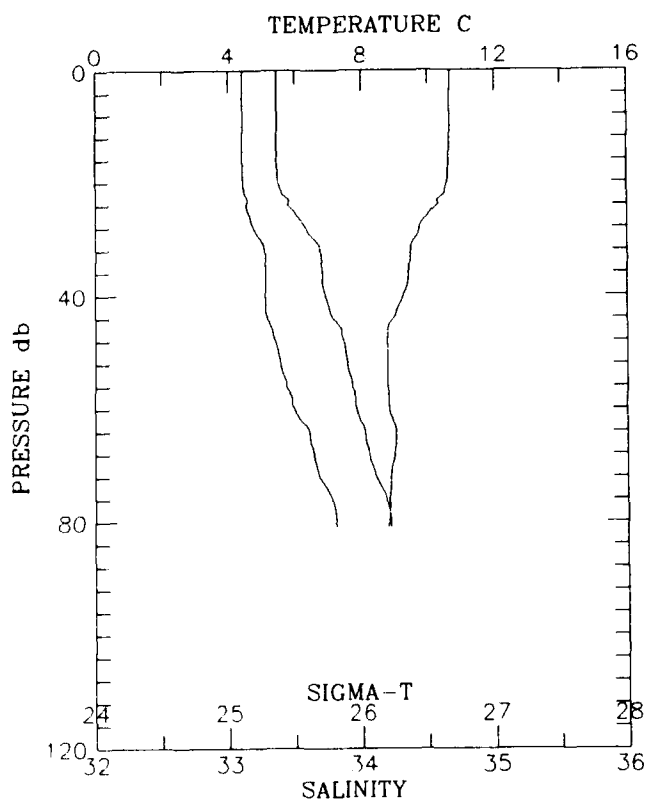
Cruise W8905 Station # 90 Depth m: 116 Time: 1989-05-09 14:03  
 Position: 38 11.60'N 123 15.90'W Depth Deck Offset: -0.20

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	11.395	32.894	25.066	0.0000
10.0		11.398	32.896	25.067	0.0292
20.0		11.385	32.889	25.064	0.0584
30.0		11.388	32.890	25.064	0.0877
40.0		11.304	32.903	25.089	0.1170
50.0		10.014	33.046	25.425	0.1440
60.0		10.049	33.219	25.554	0.1692
70.0		9.490	33.251	25.671	0.1932
80.0		8.979	33.354	25.833	0.2159
90.0		9.119	33.666	26.055	0.2371
100.0		8.954	33.773	26.165	0.2566
107.0		8.941	33.778	26.171	0.2699



Cruise W8905 Station # 91 Depth m: 91 Time: 1989-05-09 15:10  
 Position: 38 12.60'N 123 9.60'W Depth Deck Offset: -0.20

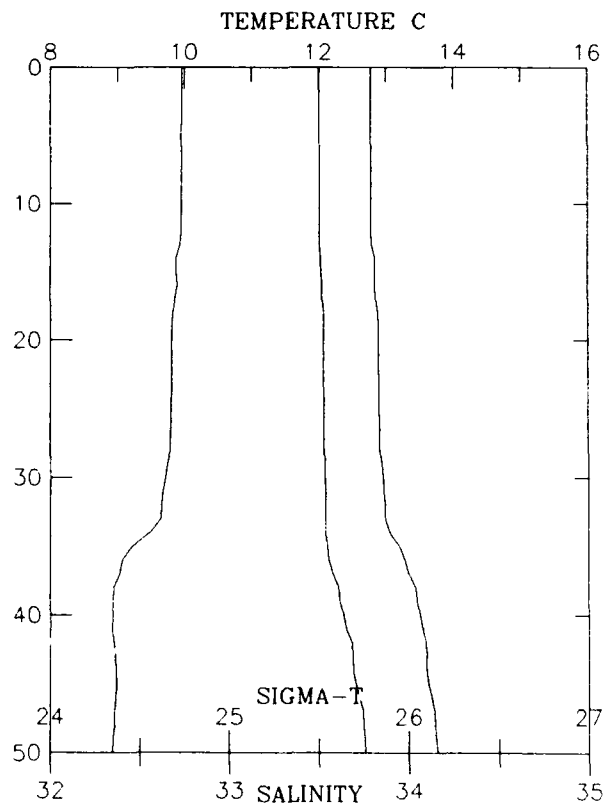
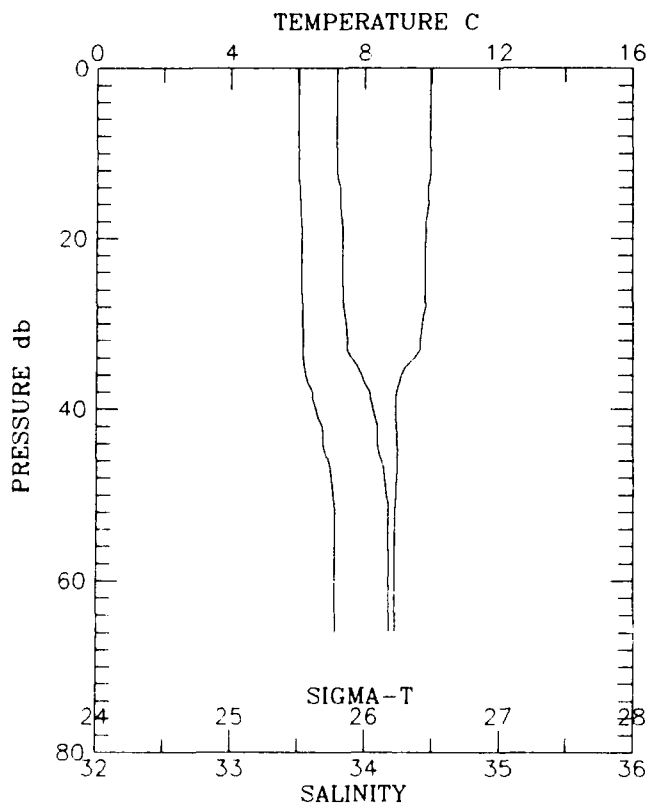
PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.664	33.108	25.362	0.0000	0.0
5.0		10.659	33.107	25.362	0.0132	0.0
10.0		10.652	33.108	25.364	0.0264	0.0
15.0		10.644	33.109	25.367	0.0396	0.0
20.0		10.601	33.116	25.379	0.0528	0.0
25.0		10.081	33.141	25.488	0.0657	0.0
30.0		9.594	33.241	25.646	0.0779	0.0
35.0		9.435	33.280	25.702	0.0896	0.0
40.0		9.254	33.275	25.727	0.1012	0.0
45.0		8.804	33.303	25.820	0.1125	0.0
50.0		8.779	33.372	25.878	0.1234	0.0
55.0		8.779	33.431	25.924	0.1341	0.0
60.0		8.855	33.500	25.967	0.1446	0.0
65.0		9.027	33.610	26.026	0.1548	0.0
70.0		8.914	33.661	26.083	0.1648	0.0
75.0		8.847	33.759	26.171	0.1744	0.0
80.0		8.804	33.803	26.212	0.1837	0.0
81.0		8.798	33.808	26.217	0.1856	0.0





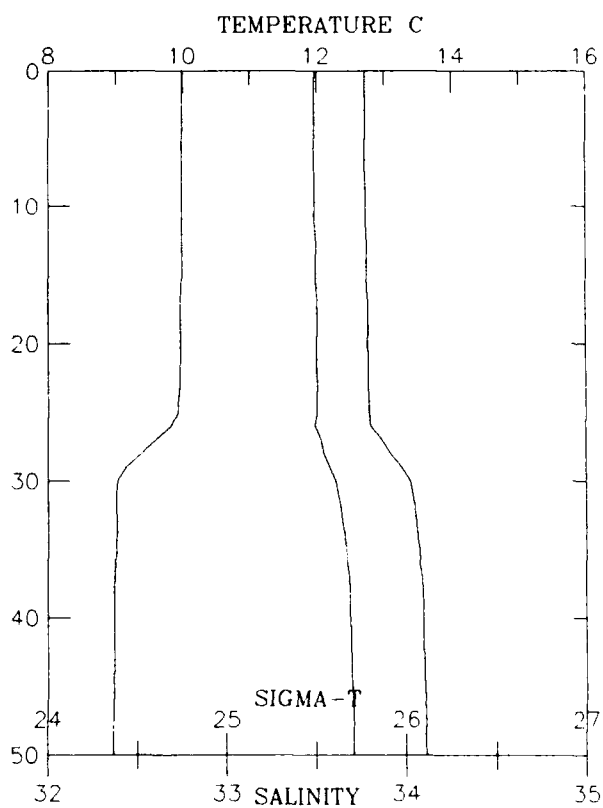
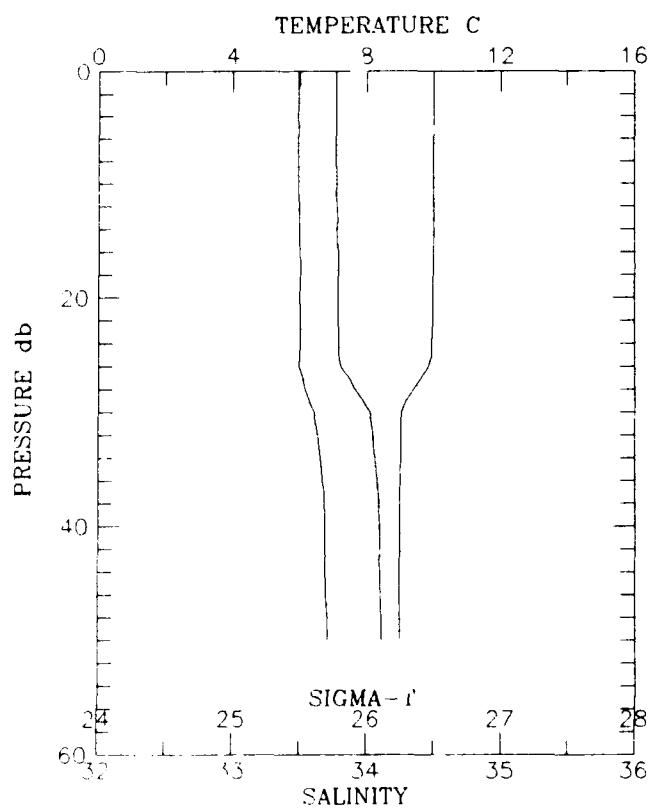
Cruise W8905 Station # 92 Depth m: 75 Time: 1989-05-09 16:15  
 Position: 38 13.80'N 123 4.60'W Depth Deck Offset: -0.20

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.960	33.506	25.792	0.0000
5.0		9.958	33.504	25.791	0.0112
10.0		9.952	33.504	25.792	0.0223
15.0		9.882	33.515	25.812	0.0334
20.0		9.814	33.527	25.833	0.0445
25.0		9.803	33.529	25.836	0.0554
30.0		9.712	33.535	25.856	0.0664
35.0		9.213	33.547	25.947	0.0771
40.0		8.923	33.634	26.061	0.0873
45.0		8.988	33.705	26.106	0.0971
50.0		8.927	33.761	26.160	0.1066
55.0		8.891	33.775	26.176	0.1160
60.0		8.888	33.774	26.176	0.1254
65.0		8.887	33.775	26.177	0.1348
66.0		8.887	33.775	26.177	0.1366



Cruise W8905 Station # 93 Depth m: 61 Time: 1989-05-09 16:43  
 Position: 38 14.10'N 123 2.20'W Depth Deck Offset: -0.20

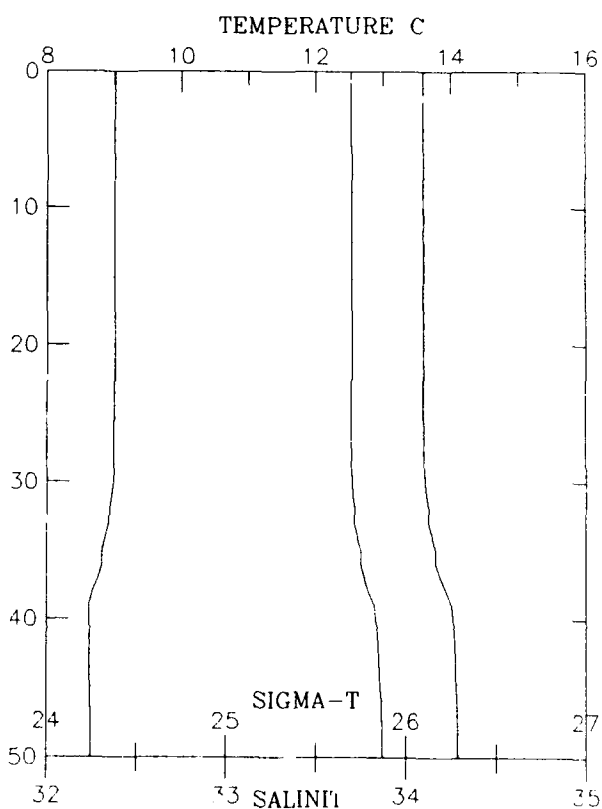
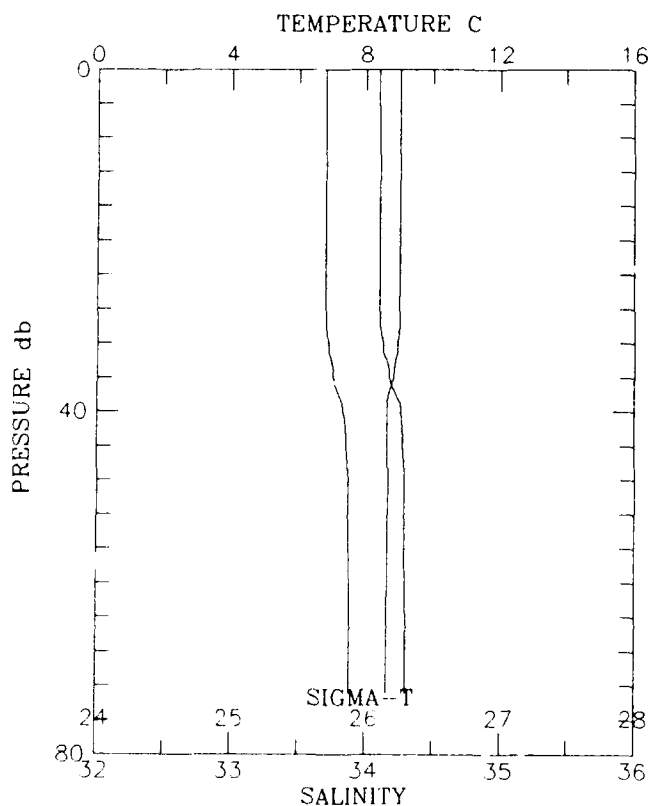
PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.000	33.489	25.772	0.0000	0.0
5.0		9.996	33.488	25.772	0.0112	0.0
10.0		9.992	33.490	25.774	0.0225	0.0
15.0		9.991	33.495	25.778	0.0337	0.0
20.0		9.974	33.501	25.786	0.0449	0.0
25.0		9.932	33.500	25.792	0.0561	0.0
30.0		9.031	33.607	26.023	0.0668	0.0
35.0		9.013	33.666	26.072	0.0768	0.0
40.0		8.983	33.688	26.094	0.0866	0.0
45.0		8.979	33.696	26.101	0.0963	0.0
50.0		8.977	33.709	26.111	0.1060	0.0



Cruise W8905 Station # 94 Depth m: 78 Time: 1989-05-10 10:58  
 Position: 38 39.90'N 123 27.50'W Depth Deck Offset: 0.00

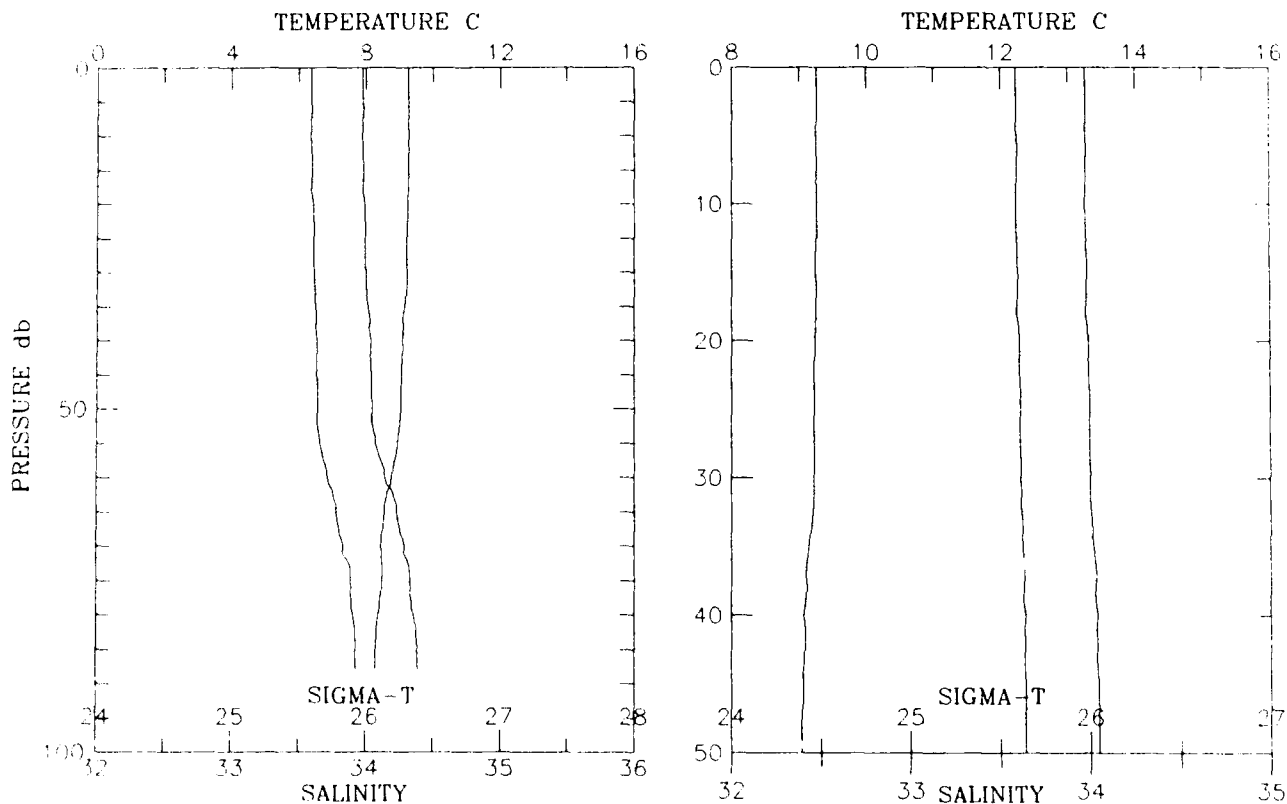
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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0.0	E	9.009	33.697	26.097	0.0000
5.0		9.005	33.699	26.099	0.0097
10.0		9.006	33.700	26.099	0.0194
15.0		9.005	33.700	26.100	0.0291
20.0		9.006	33.700	26.099	0.0388
25.0		9.001	33.699	26.099	0.0485
30.0		8.982	33.701	26.104	0.0582
35.0		8.824	33.751	26.168	0.0678
40.0		8.626	33.831	26.261	0.0770
45.0		8.643	33.858	26.280	0.0859
50.0		8.653	33.866	26.285	0.0948
55.0		8.659	33.874	26.290	0.1036
60.0		8.650	33.881	26.297	0.1124
65.0		8.644	33.882	26.299	0.1213
70.0		8.639	33.882	26.299	0.1301
73.0		8.639	33.882	26.300	0.1353



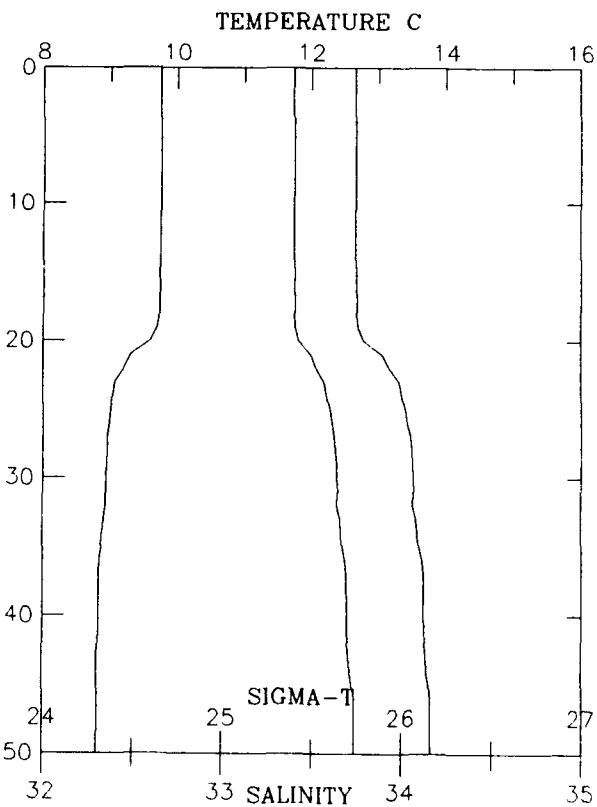
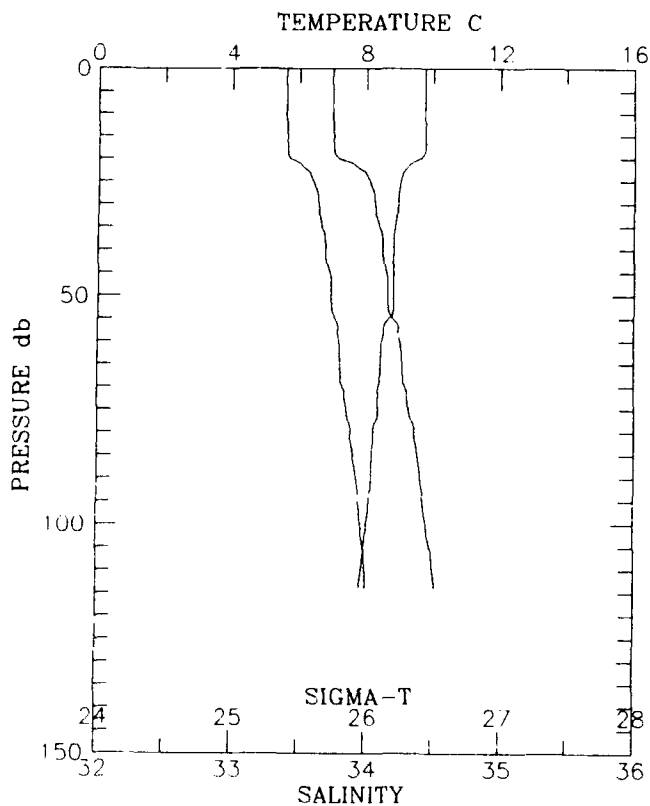
Cruise W8905 Station # 95 Depth m: 73 Time: 1989-05-10 11:38  
 Position: 38 38.70'N 123 29.10'W Depth Deck Offset: -0.38

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 9.264	33.590	25.972	0.0000	0.0
5.0	9.260	33.593	25.975	0.0103	0.0
10.0	9.268	33.589	25.971	0.0206	0.0
15.0	9.251	33.598	25.981	0.0309	0.0
20.0	9.234	33.606	25.990	0.0411	0.0
25.0	9.227	33.611	25.995	0.0514	0.0
30.0	9.225	33.615	25.998	0.0616	0.0
35.0	9.151	33.624	26.017	0.0718	0.0
40.0	9.076	33.637	26.039	0.0818	0.0
45.0	9.063	33.637	26.041	0.0919	0.0
50.0	9.042	33.641	26.048	0.1018	0.0
55.0	8.956	33.658	26.074	0.1118	0.0
60.0	8.781	33.716	26.147	0.1215	0.0
65.0	8.554	33.781	26.233	0.1308	0.0
70.0	8.473	33.835	26.288	0.1398	0.0
75.0	8.487	33.890	26.329	0.1485	0.0
80.0	8.388	33.907	26.358	0.1571	0.0
85.0	8.307	33.926	26.385	0.1656	0.0
88.0	8.286	33.931	26.392	0.1706	0.0



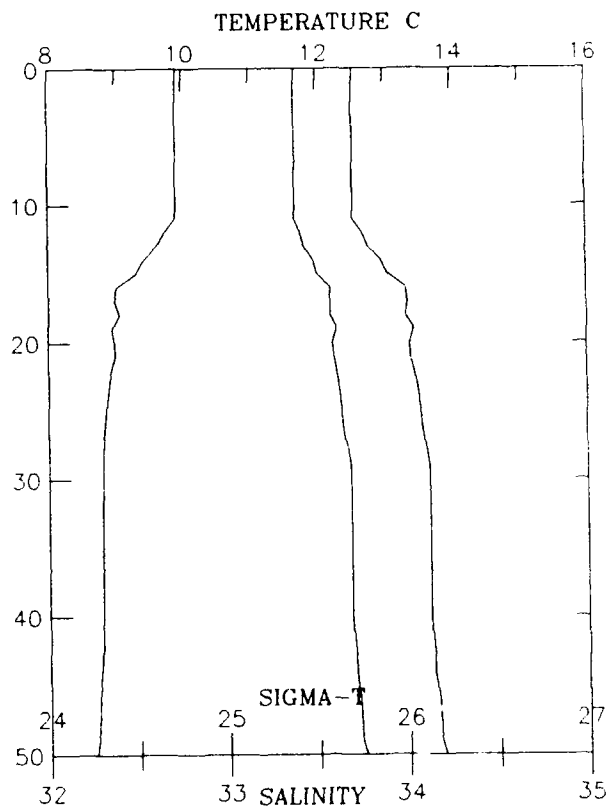
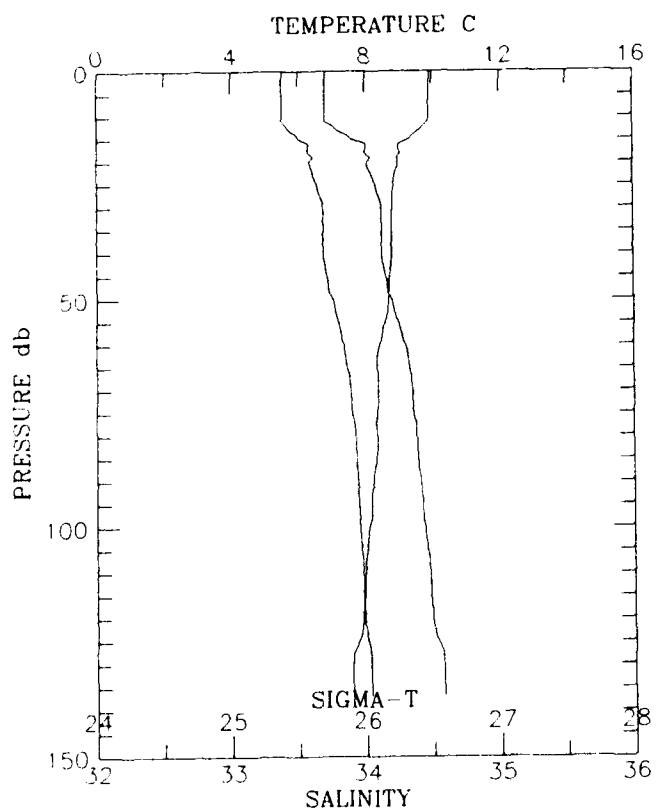
Cruise W8905 Station # 96 Depth m: 118 Time: 1989-05-10 12:20  
 Position: 38 36.67'N 123 31.63'W Depth Deck Offset: -0.38

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.750	33.401	25.745	0.0000
10.0		9.750	33.400	25.745	0.0228
20.0		9.597	33.429	25.792	0.0455
30.0		8.941	33.641	26.064	0.0659
40.0		8.828	33.696	26.124	0.0853
50.0		8.803	33.738	26.161	0.1044
60.0		8.491	33.800	26.258	0.1228
70.0		8.388	33.830	26.297	0.1407
80.0		8.227	33.886	26.365	0.1580
90.0		8.173	33.929	26.407	0.1748
100.0		8.055	33.971	26.458	0.1912
110.0		7.896	33.999	26.503	0.2072
114.0		7.841	34.006	26.517	0.2134



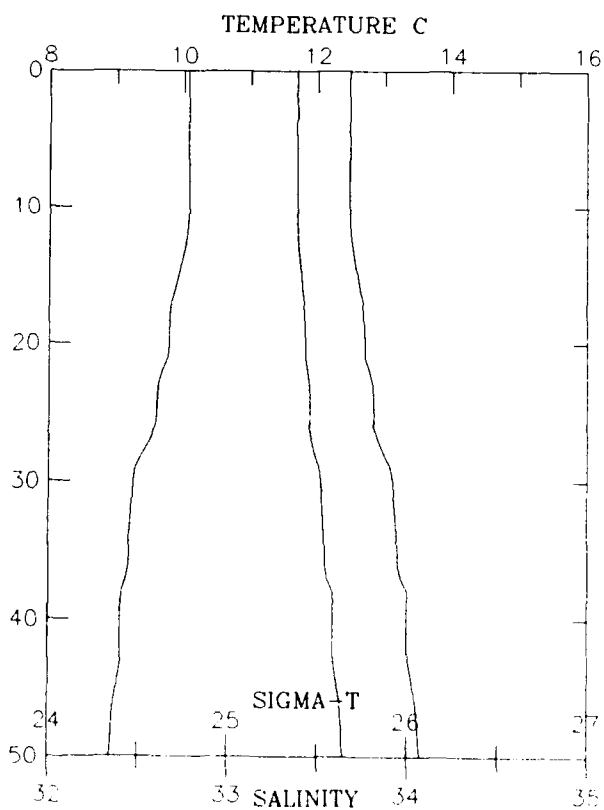
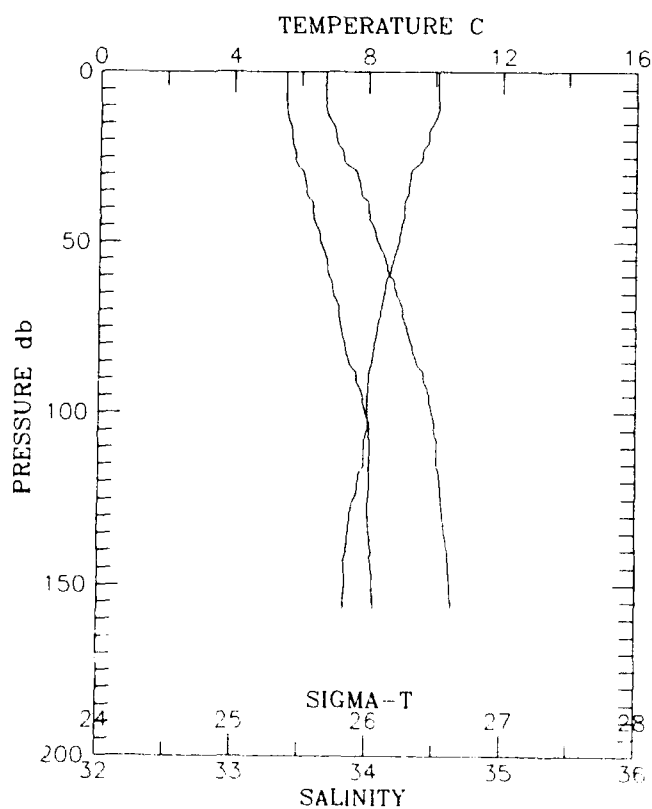
Cruise W8905 Station # 97 Depth m: 141 Time: 1989-05-10 12:51  
 Position: 38 35.32'N 123 33.77'W Depth Deck Offset: -0.38

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.913	33.382	25.703	0.0000	0.0
10.0		9.906	33.382	25.705	0.0231	0.0
20.0		8.979	33.589	26.017	0.0445	0.0
30.0		8.801	33.684	26.119	0.0642	0.0
40.0		8.788	33.688	26.124	0.0835	0.0
50.0		8.679	33.755	26.194	0.1024	0.0
60.0		8.420	33.841	26.301	0.1206	0.0
70.0		8.363	33.888	26.347	0.1379	0.0
80.0		8.345	33.926	26.379	0.1549	0.0
90.0		8.219	33.939	26.408	0.1717	0.0
100.0		8.101	33.957	26.440	0.1882	0.0
110.0		7.972	33.977	26.475	0.2044	0.0
120.0		7.898	33.988	26.494	0.2203	0.0
130.0		7.591	34.033	26.575	0.2357	0.0
137.0		7.585	34.034	26.576	0.2463	0.0



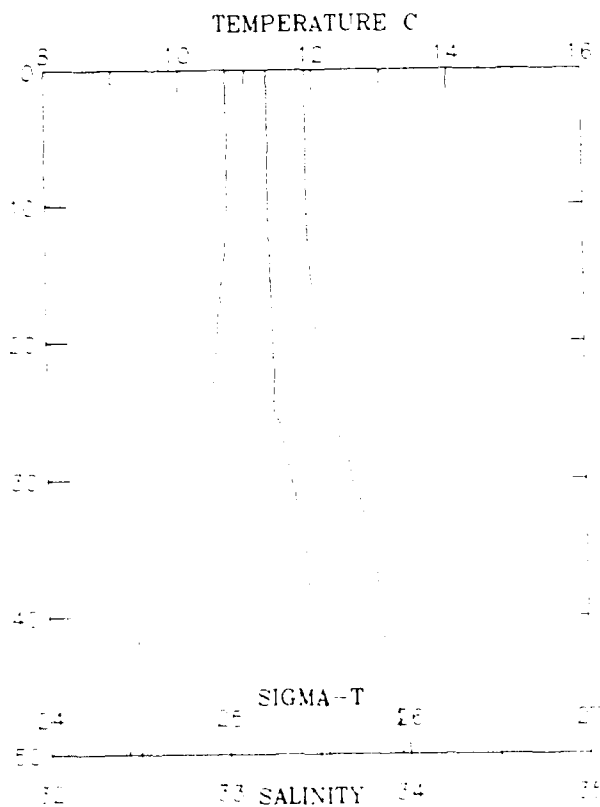
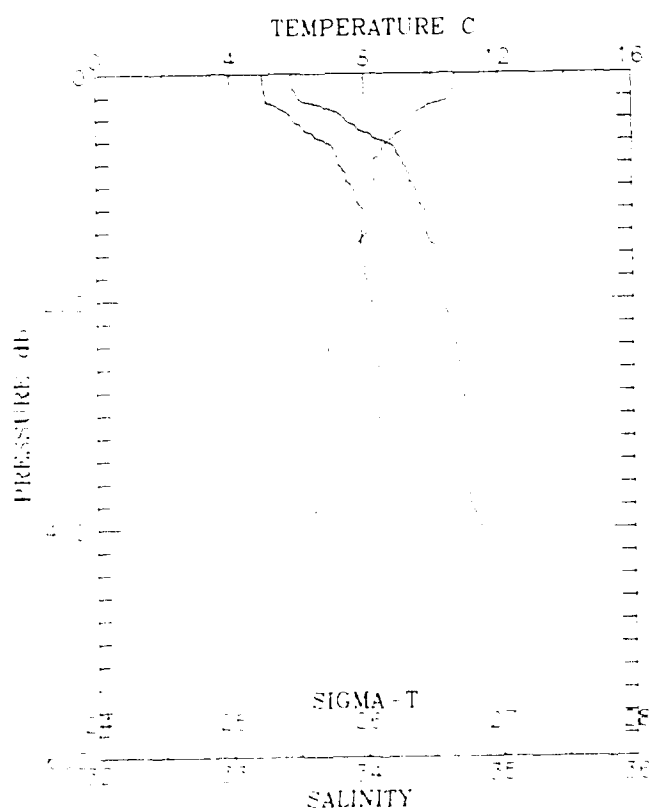
Cruise W8905 Station # 98 Depth m: 162 Time: 1989-05-10 13:37  
 Position: 38 33.13'N 123 36.87'W Depth Deck Offset: -0.38

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.072	33.384	25.678	0.0000	0.0
10.0		10.078	33.383	25.676	0.0234	0.0
20.0		9.793	33.432	25.762	0.0464	0.0
30.0		9.255	33.520	25.919	0.0684	0.0
40.0		9.074	33.587	26.000	0.0893	0.0
50.0		8.918	33.646	26.071	0.1094	0.0
60.0		8.636	33.706	26.162	0.1287	0.0
70.0		8.416	33.788	26.260	0.1471	0.0
80.0		8.196	33.828	26.325	0.1648	0.0
90.0		8.039	33.914	26.415	0.1818	0.0
100.0		7.995	33.986	26.479	0.1980	0.0
110.0		7.906	34.017	26.516	0.2137	0.0
120.0		7.728	34.017	26.542	0.2293	0.0
130.0		7.513	34.012	26.569	0.2446	0.0
140.0		7.392	34.031	26.601	0.2596	0.0
150.0		7.349	34.045	26.619	0.2743	0.0
157.0		7.311	34.051	26.629	0.2846	0.0



Cruise W8905 Station # 99 Depth m: 415 Time: 1989-05-10 14:17  
 Position: 38 30.97'N 123 39.90'W Depth Deck Offset: -0.38

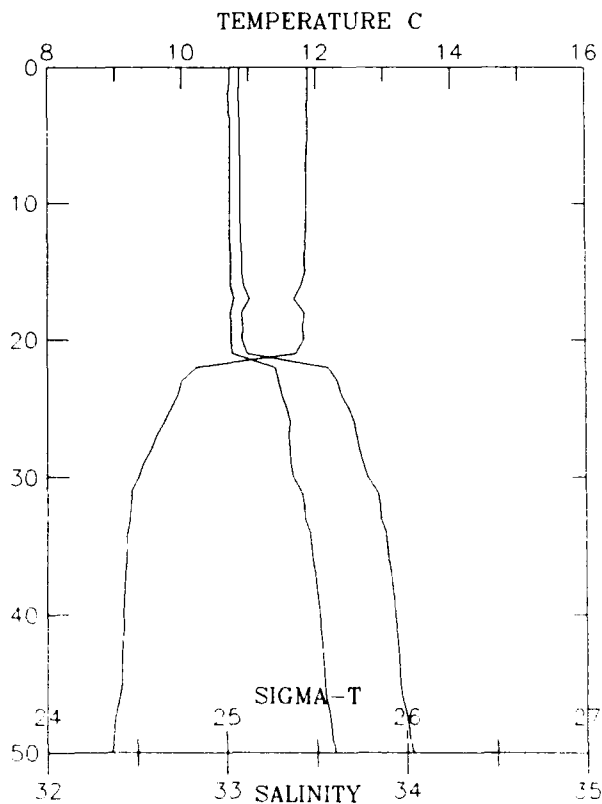
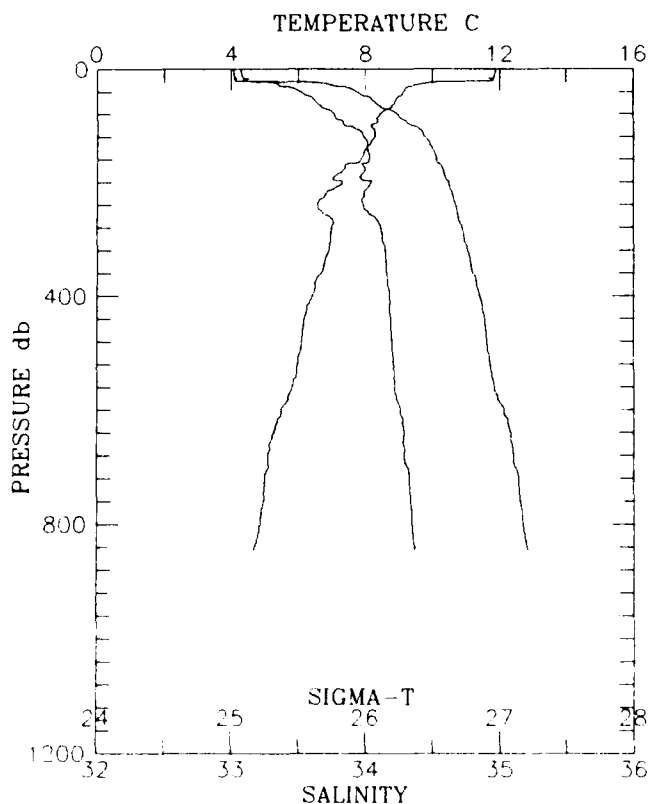
PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.715	33.247	25.462	0.0000	0.0
10.0		10.714	33.247	25.462	0.0255	0.0
20.0		10.550	33.267	25.506	0.0507	0.0
30.0		9.842	33.357	25.696	0.0751	0.0
40.0		9.352	33.463	25.859	0.0974	0.0
50.0		9.157	33.547	25.956	0.1186	0.0
60.0		8.727	33.700	26.143	0.1386	0.0
80.0		8.280	33.804	26.293	0.1749	0.0
100.0		8.269	33.903	26.373	0.2096	0.0
150.0		7.782	33.972	26.499	0.2915	0.0
200.0		7.537	34.046	26.593	0.3680	0.0
250.0		6.920	34.071	26.698	0.4408	0.0
300.0		6.754	34.095	26.739	0.5100	0.0
400.0		6.177	34.161	26.867	0.6451	0.0
412.0		6.123	34.169	26.880	0.6603	0.0





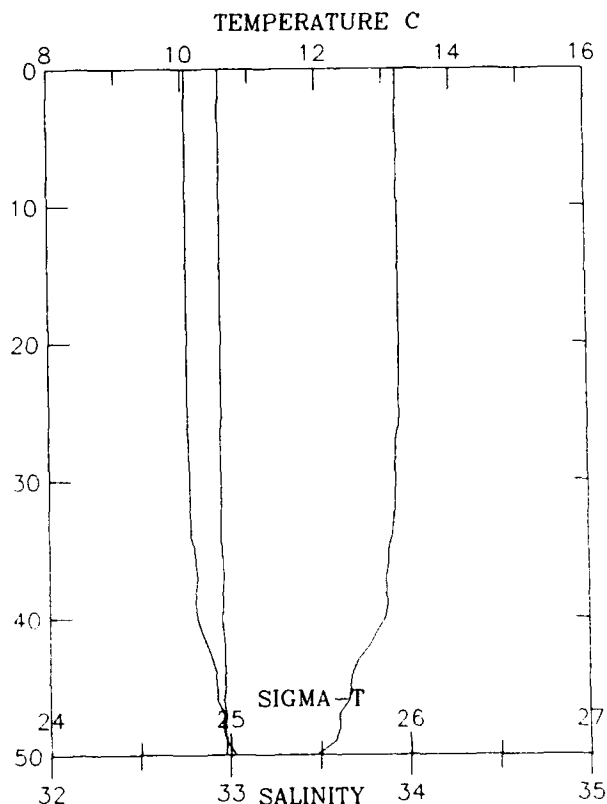
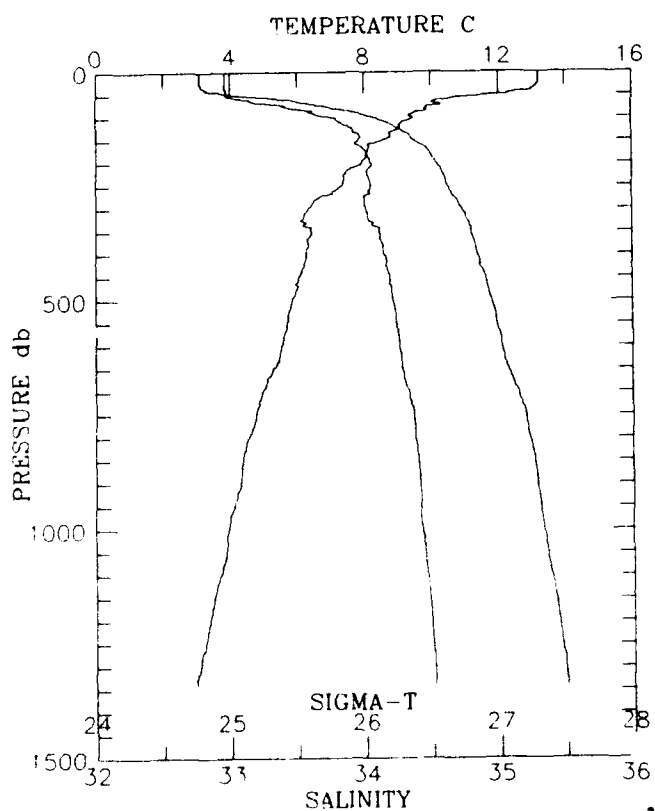
Cruise W8905 Station # 100 Depth m: 853 Time: 1989-05-10 15:26  
 Position: 38 29.06'N 123 42.45'W Depth Deck Offset: -0.38

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	11.880	33.020	25.075	0.0000	0.0
10.0		11.858	33.021	25.079	0.0291	0.0
20.0		11.819	33.027	25.091	0.0581	0.0
30.0		9.362	33.375	25.788	0.0823	0.0
40.0		9.130	33.519	25.938	0.1038	0.0
50.0		8.951	33.602	26.031	0.1244	0.0
60.0		8.863	33.641	26.076	0.1443	0.0
80.0		8.436	33.768	26.241	0.1823	0.0
100.0		8.146	33.846	26.346	0.2179	0.0
150.0		7.939	34.025	26.517	0.2991	0.0
200.0		7.311	34.041	26.620	0.3753	0.0
250.0		6.654	34.007	26.683	0.4478	0.0
300.0		6.962	34.126	26.735	0.5179	0.0
400.0		6.412	34.179	26.851	0.6512	0.0
500.0		6.035	34.204	26.919	0.7766	0.0
600.0		5.484	34.261	27.033	0.8964	0.0
700.0		5.131	34.313	27.116	1.0051	0.0
800.0		4.859	34.346	27.173	1.1080	0.0
847.0		4.662	34.369	27.214	1.1548	0.0



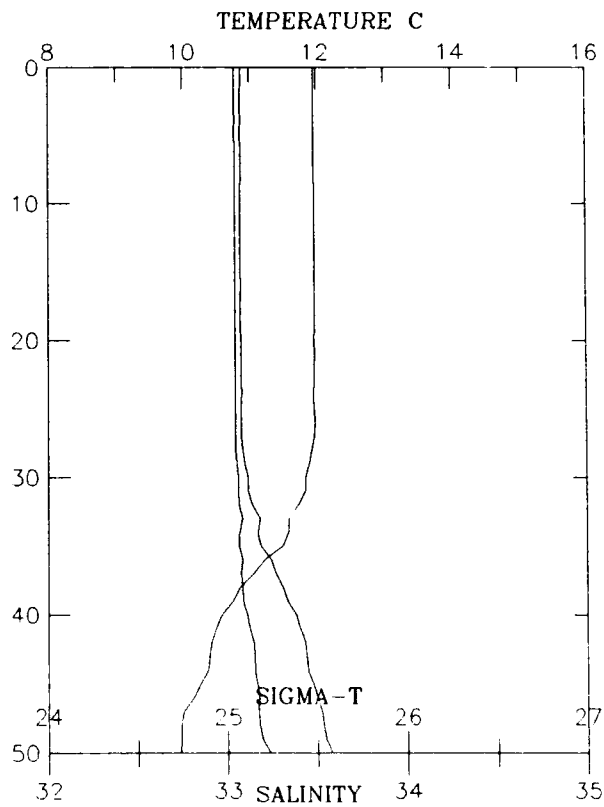
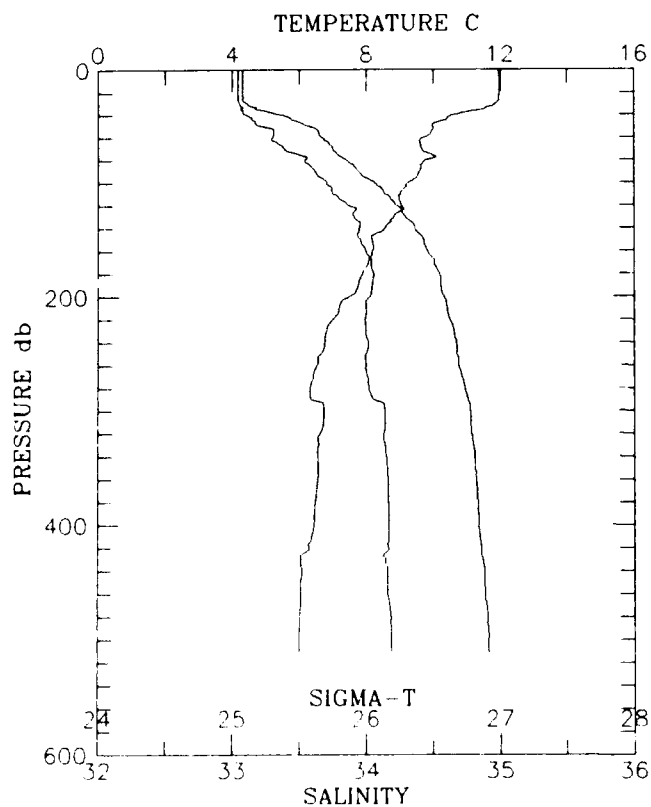
Cruise W8905 Station # 123 Depth m: 1353 Time: 1989-05-11 05:15  
 Position: 38 51.82'N 124 1.07'W Depth Deck Offset: -0.15

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 13.208	32.963	24.775	0.0000	0.0
10.0	13.211	32.963	24.774	0.0320	0.0
20.0	13.214	32.963	24.773	0.0640	0.0
30.0	13.145	32.960	24.785	0.0960	0.0
40.0	12.972	32.960	24.819	0.1278	0.0
50.0	11.941	32.973	25.027	0.1585	0.0
60.0	10.419	33.147	25.434	0.1859	0.0
80.0	9.843	33.489	25.799	0.2340	0.0
100.0	9.480	33.787	26.091	0.2757	0.0
150.0	8.495	33.953	26.378	0.3663	0.0
200.0	7.923	34.053	26.542	0.4469	0.0
250.0	7.321	34.050	26.626	0.5225	0.0
300.0	6.320	34.012	26.731	0.5940	0.0
400.0	6.265	34.148	26.846	0.7267	0.0
500.0	5.843	34.214	26.952	0.8509	0.0
600.0	5.527	34.260	27.027	0.9675	0.0
700.0	4.953	34.333	27.152	1.0765	0.0
800.0	4.549	34.380	27.234	1.1750	0.0
900.0	4.292	34.409	27.285	1.2671	0.0
1000.0	3.952	34.430	27.338	1.3555	0.0
1100.0	3.685	34.464	27.392	1.4394	0.0
1200.0	3.381	34.492	27.444	1.5178	0.0
1300.0	3.096	34.515	27.489	1.5918	0.0
1343.0	2.982	34.525	27.508	1.6223	0.0



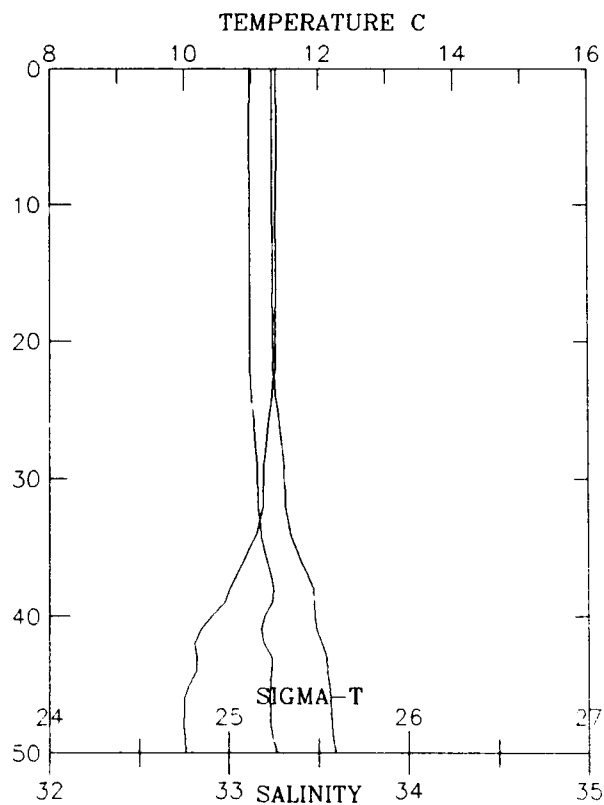
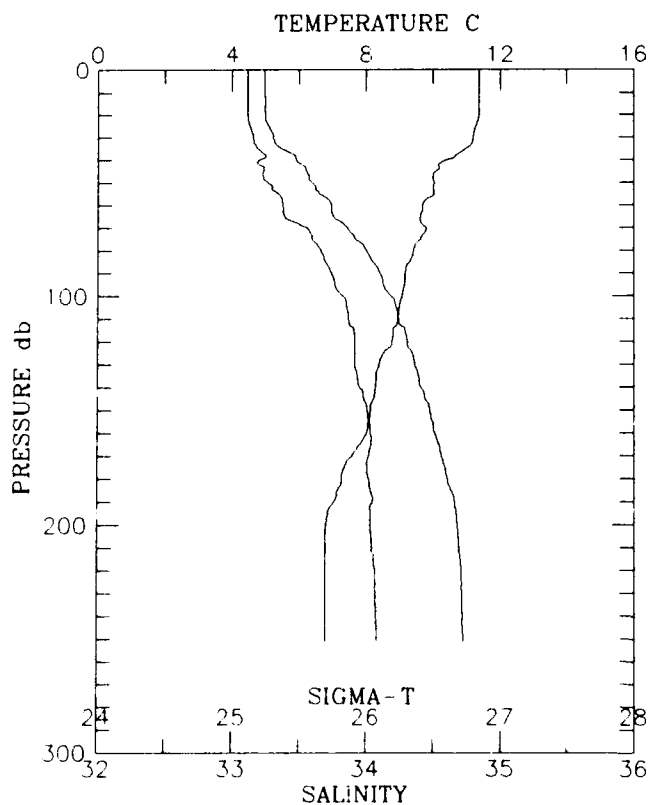
Cruise W8905 Station # 124 Depth m: 519 Time: 1989-05-11 06:56  
 Position: 38 52.80'N 123 58.20'W Depth Deck Offset: -0.15

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	11.963	33.044	25.078	0.0000
10.0		11.972	33.045	25.077	0.0291
20.0		11.967	33.045	25.078	0.0582
30.0		11.830	33.059	25.114	0.0873
40.0		10.574	33.110	25.379	0.1152
50.0		9.969	33.234	25.579	0.1405
60.0		9.691	33.300	25.676	0.1644
80.0		9.743	33.540	25.855	0.2100
100.0		9.247	33.703	26.064	0.2520
150.0		8.180	33.958	26.429	0.3425
200.0		7.497	34.027	26.583	0.4212
250.0		6.642	33.993	26.674	0.4943
300.0		6.737	34.140	26.777	0.5635
400.0		6.437	34.168	26.839	0.6950
500.0		5.997	34.189	26.912	0.8211
511.0		5.988	34.191	26.915	0.8347



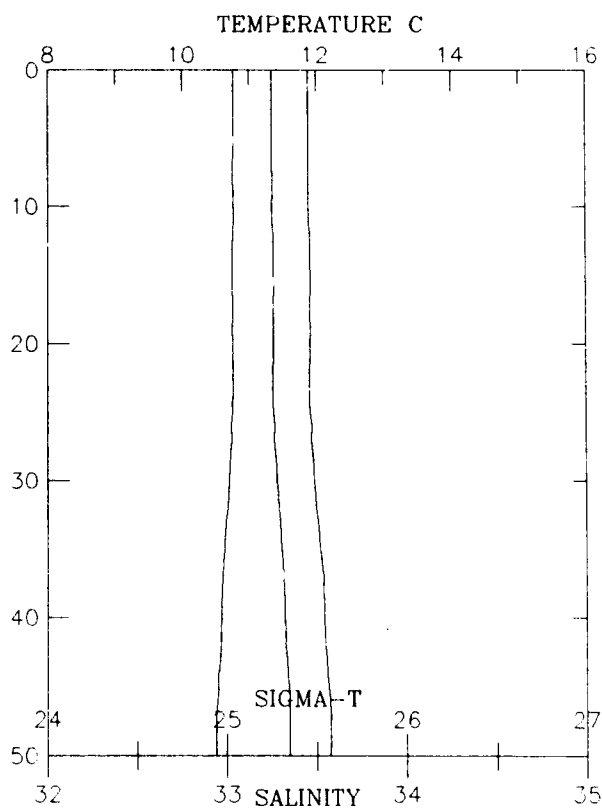
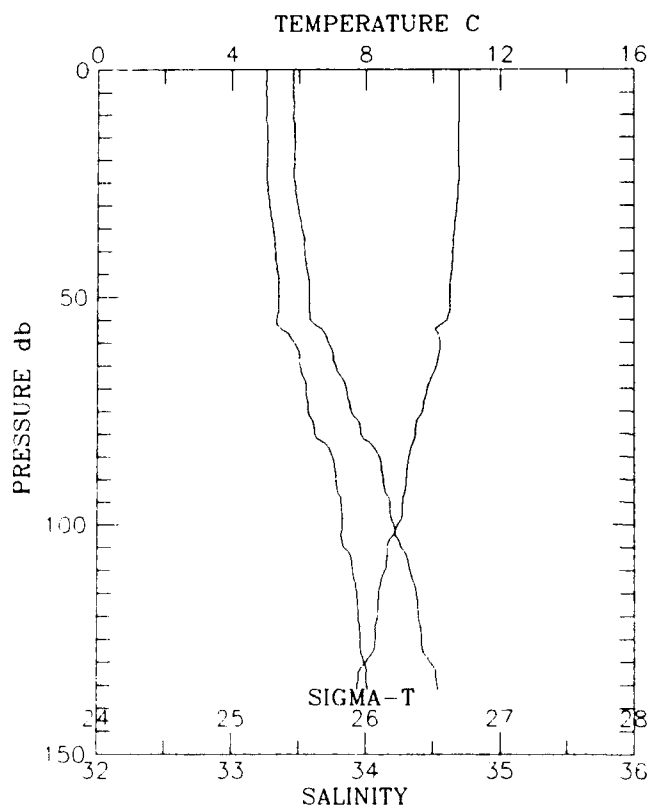
Cruise W8905 Station # 125 Depth m: 257 Time: 1989-05-11 07:57  
 Position: 38 53.40'N 123 55.40'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	11.376	33.117	25.243	0.0000
10.0		11.372	33.117	25.244	0.0275
20.0		11.362	33.119	25.247	0.0551
30.0		11.191	33.157	25.307	0.0823
40.0		10.408	33.200	25.478	0.1086
50.0		10.027	33.268	25.595	0.1333
60.0		9.689	33.380	25.739	0.1569
80.0		9.414	33.663	26.005	0.2005
100.0		9.075	33.823	26.185	0.2397
150.0		8.138	34.010	26.476	0.3266
200.0		6.811	34.034	26.684	0.4018
250.0		6.791	34.083	26.725	0.4716
251.0		6.788	34.082	26.725	0.4730



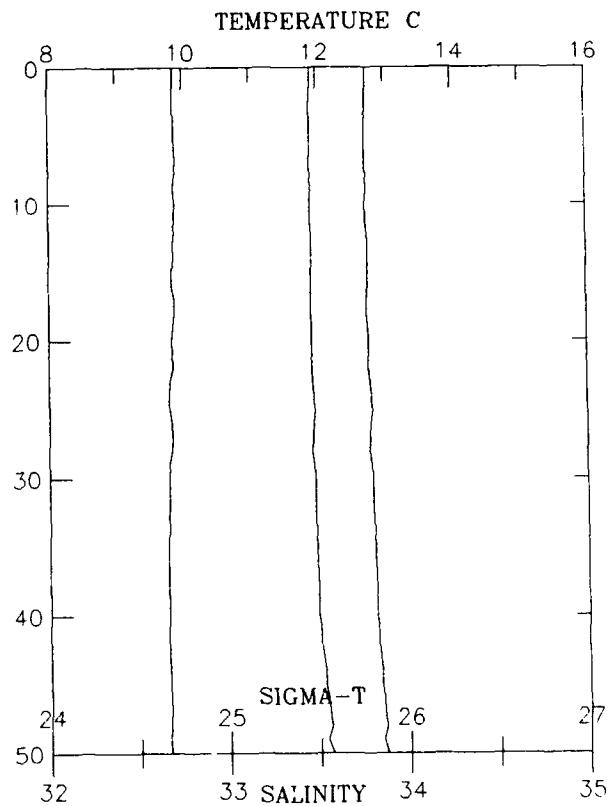
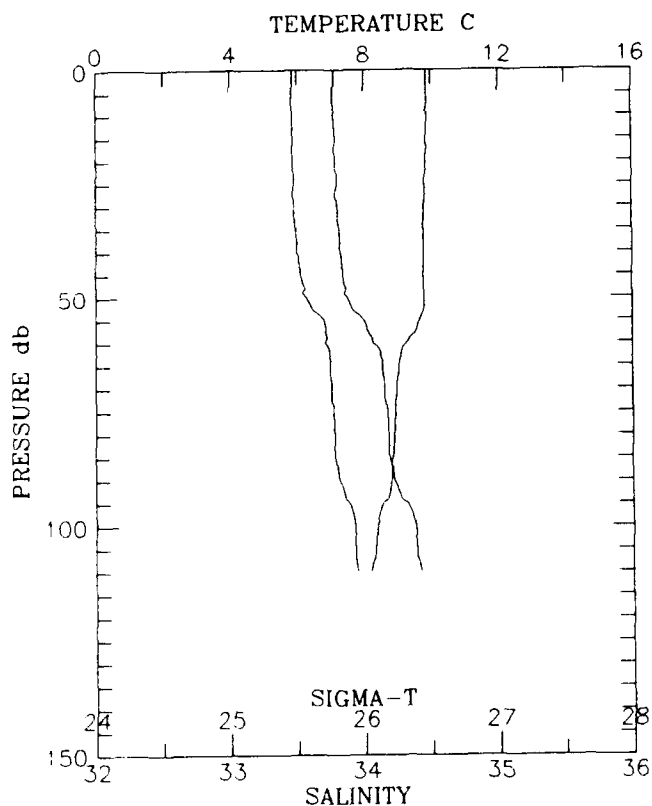
Cruise W8905 Station # 126 Depth m: 141 Time: 1989-05-11 08:42  
 Position: 38 54.10'N 123 53.10'W Depth Deck Offset: -0.25

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.770	33.255	25.458	0.0000
10.0		10.768	33.255	25.458	0.0255
20.0		10.758	33.260	25.464	0.0509
30.0		10.701	33.279	25.488	0.0764
40.0		10.583	33.323	25.543	0.1013
50.0		10.510	33.348	25.575	0.1259
60.0		10.208	33.463	25.717	0.1499
70.0		9.819	33.553	25.853	0.1725
80.0		9.469	33.618	25.961	0.1938
90.0		9.206	33.778	26.129	0.2136
100.0		8.954	33.825	26.206	0.2325
110.0		8.571	33.904	26.328	0.2505
120.0		8.362	33.943	26.390	0.2676
130.0		8.005	33.986	26.478	0.2841
136.0		7.740	34.012	26.536	0.2935



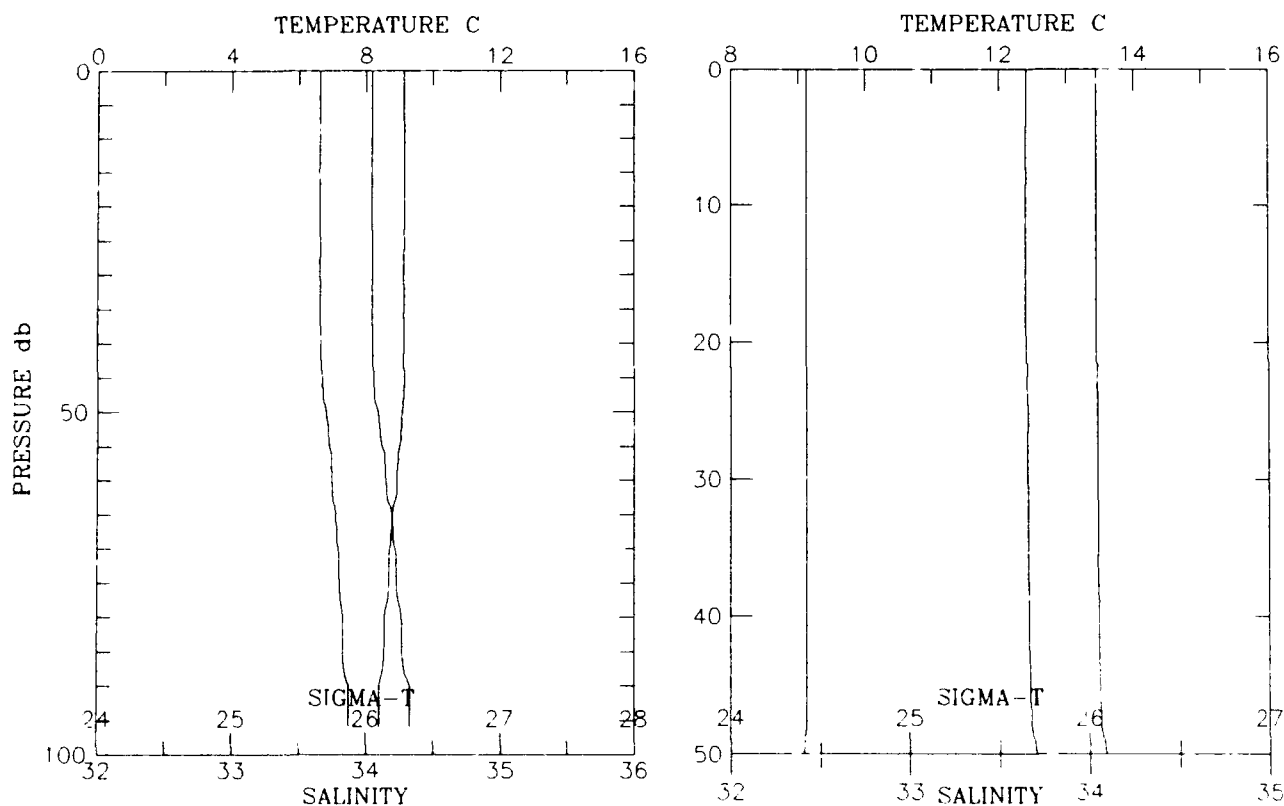
Cruise W8905 Station # 127 Depth m: 116 Time: 1989-05-11 09:22  
 Position: 38 54.90'N 123 50.40'W Depth Deck Offset: -0.35

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 9.867	33.467	25.778	0.0000	0.0
10.0	9.884	33.463	25.772	0.0225	0.0
20.0	9.834	33.470	25.786	0.0449	0.0
30.0	9.784	33.481	25.802	0.0673	0.0
40.0	9.759	33.495	25.818	0.0895	0.0
50.0	9.778	33.569	25.872	0.1114	0.0
60.0	9.278	33.709	26.063	0.1320	0.0
70.0	8.967	33.754	26.148	0.1513	0.0
80.0	8.874	33.774	26.179	0.1702	0.0
90.0	8.789	33.808	26.218	0.1888	0.0
100.0	8.363	33.922	26.373	0.2065	0.0
110.0	8.170	33.946	26.421	0.2233	0.0



Cruise W8905 Station # 128 Depth m: 100 Time: 1989-05-11 10:12  
 Position: 38 55.90'N 123 47.70'W Depth Deck Offset: -0.30

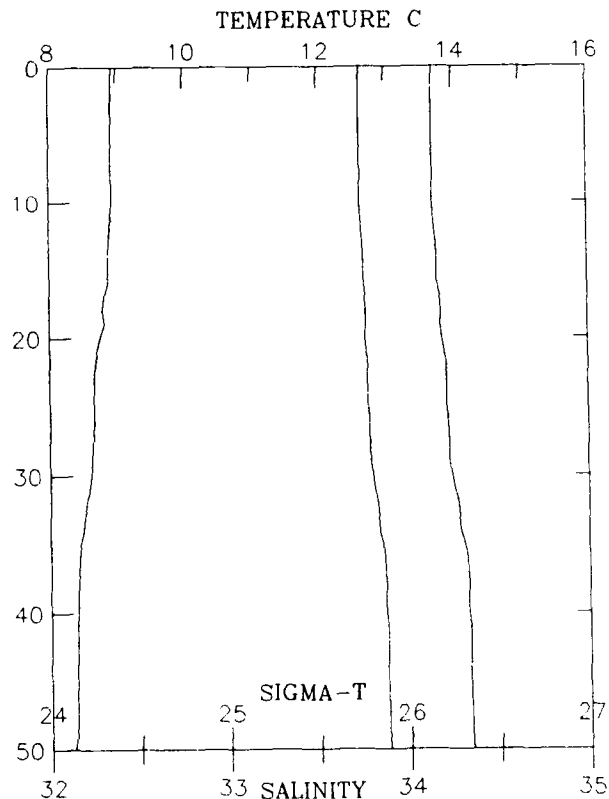
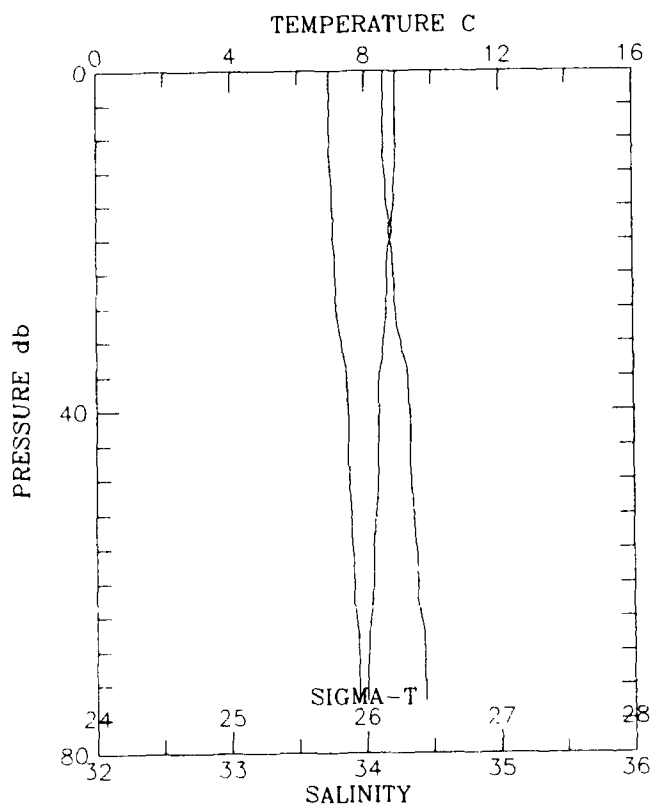
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 9.131	33.654	26.044	0.0000	0.0
5.0	9.130	33.652	26.042	0.0100	0.0
10.0	9.134	33.652	26.042	0.0199	0.0
15.0	9.134	33.651	26.041	0.0299	0.0
20.0	9.133	33.654	26.043	0.0399	0.0
25.0	9.133	33.659	26.048	0.0499	0.0
30.0	9.129	33.657	26.046	0.0598	0.0
35.0	9.134	33.661	26.049	0.0698	0.0
40.0	9.132	33.665	26.052	0.0798	0.0
45.0	9.136	33.673	26.058	0.0897	0.0
50.0	9.085	33.703	26.070	0.0996	0.0
55.0	9.008	33.729	26.122	0.1093	0.0
60.0	8.931	33.748	26.149	0.1189	0.0
65.0	8.792	33.777	26.194	0.1283	0.0
70.0	8.721	33.794	26.218	0.1376	0.0
75.0	8.684	33.804	26.232	0.1467	0.0
80.0	8.565	33.827	26.268	0.1558	0.0
85.0	8.549	33.829	26.272	0.1647	0.0
90.0	8.402	33.871	26.328	0.1736	0.0
95.0	8.398	33.872	26.329	0.1823	0.0
96.0	8.397	33.872	26.329	0.1840	0.0



Cruise W8905 Station # 129 Depth m: 78 Time: 1989-05-11 11:10  
 Position: 38 51.06'N 123 42.52'W Depth Deck Offset: -0.30

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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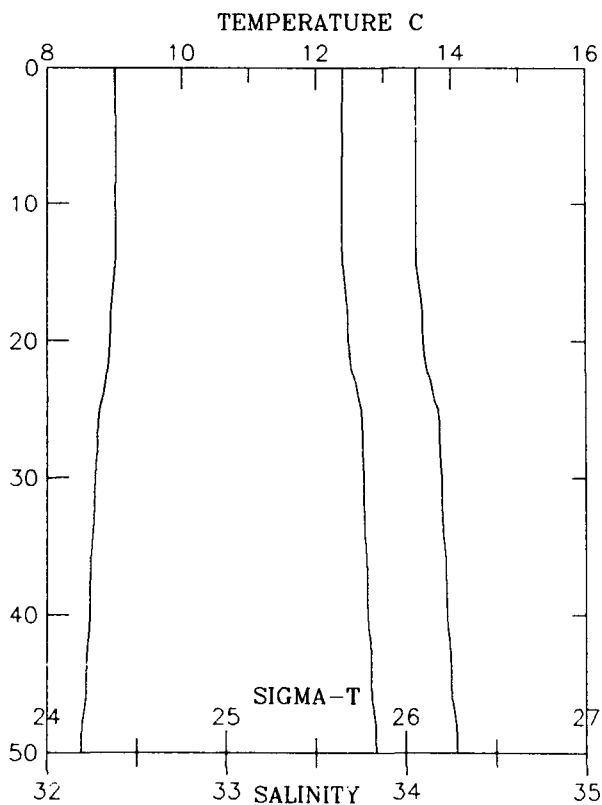
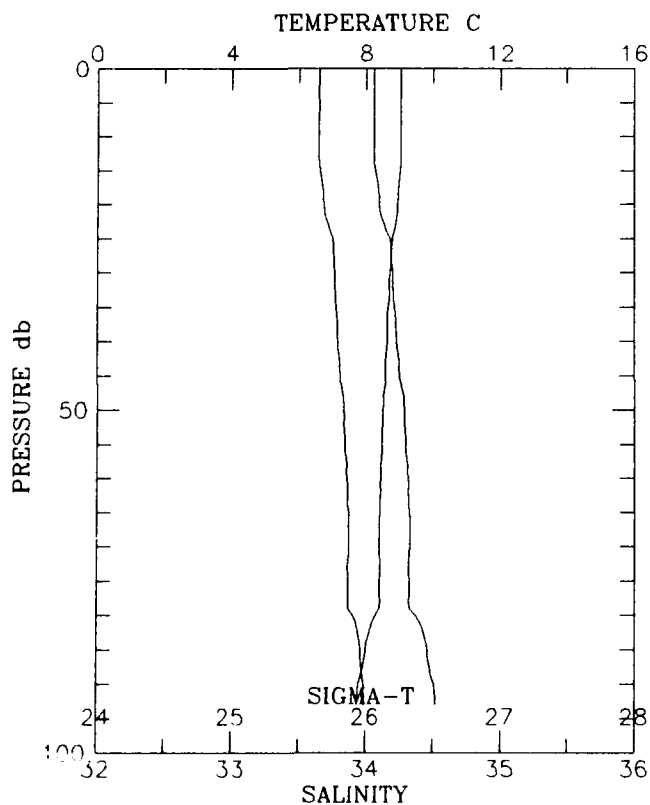
0.0	E	8.933	33.738	26.141	0.0000	0.0
5.0		8.929	33.739	26.142	0.0095	0.0
10.0		8.934	33.736	26.139	0.0190	0.0
15.0		8.883	33.754	26.161	0.0284	0.0
20.0		8.750	33.763	26.189	0.0378	0.0
25.0		8.658	33.778	26.215	0.0470	0.0
30.0		8.605	33.798	26.239	0.0561	0.0
35.0		8.442	33.854	26.308	0.0650	0.0
40.0		8.397	33.869	26.327	0.0737	0.0
45.0		8.382	33.875	26.334	0.0823	0.0
50.0		8.338	33.884	26.347	0.0909	0.0
55.0		8.257	33.900	26.372	0.0994	0.0
60.0		8.220	33.911	26.386	0.1078	0.0
65.0		8.104	33.933	26.420	0.1161	0.0
70.0		8.048	33.944	26.437	0.1243	0.0
74.0		8.029	33.946	26.442	0.1308	0.0





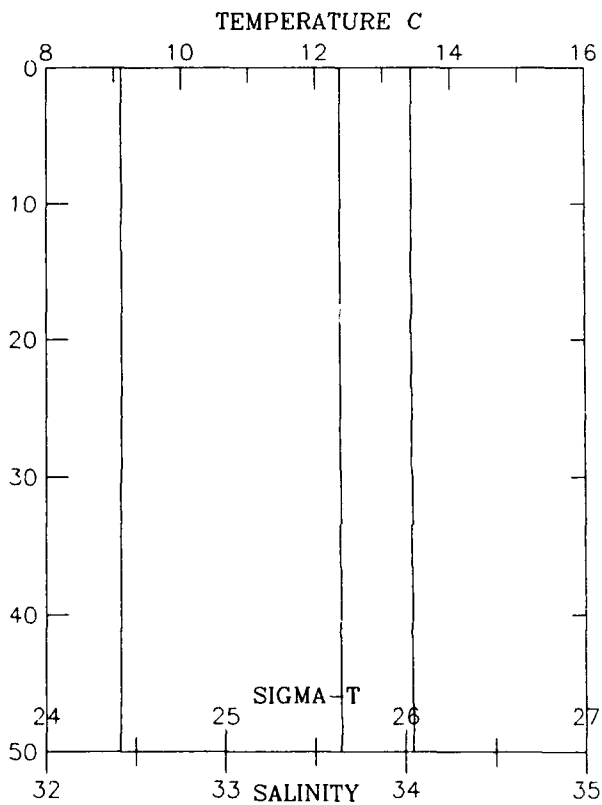
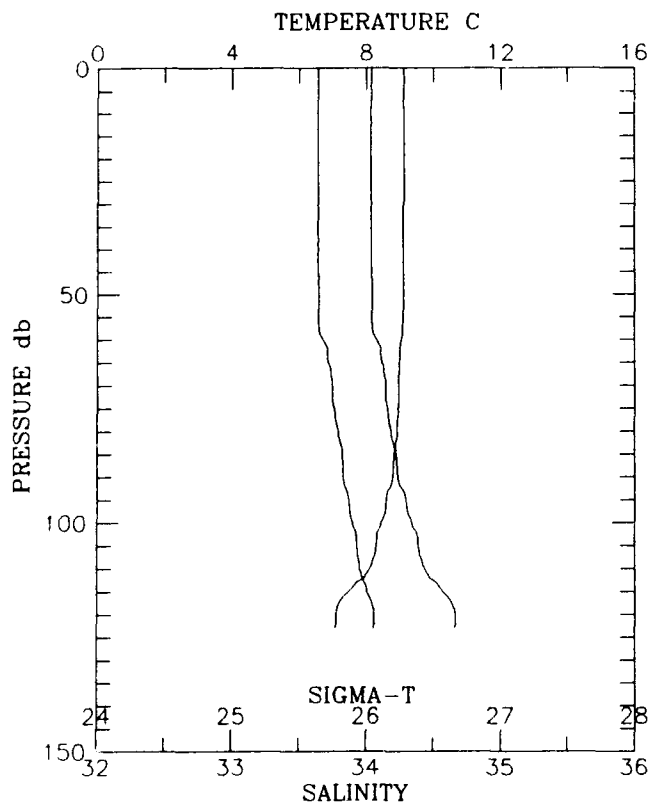
Cruise W8905 Station # 130 Depth m: 97 Time: 1989-05-11 11:39  
 Position: 38 50.05'N 123 43.50'W Depth Deck Offset: -0.30

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.019	33.648	26.057	0.0000	0.0
5.0		9.021	33.648	26.057	0.0099	0.0
10.0		9.019	33.647	26.056	0.0198	0.0
15.0		9.001	33.656	26.066	0.0297	0.0
20.0		8.938	33.684	26.098	0.0395	0.0
25.0		8.769	33.751	26.177	0.0490	0.0
30.0		8.709	33.766	26.198	0.0583	0.0
35.0		8.661	33.777	26.214	0.0676	0.0
40.0		8.630	33.789	26.228	0.0767	0.0
45.0		8.581	33.808	26.251	0.0858	0.0
50.0		8.507	33.835	26.283	0.0947	0.0
55.0		8.479	33.844	26.295	0.1035	0.0
60.0		8.440	33.860	26.313	0.1123	0.0
65.0		8.419	33.870	26.324	0.1210	0.0
70.0		8.410	33.872	26.327	0.1297	0.0
75.0		8.416	33.868	26.323	0.1384	0.0
80.0		8.293	33.899	26.366	0.1471	0.0
85.0		7.992	33.961	26.459	0.1553	0.0
90.0		7.788	33.984	26.507	0.1633	0.0
93.0		7.728	33.987	26.518	0.1680	0.0



Cruise W8905 Station # 131 Depth m: 127 Time: 1989-05-11 12:21  
 Position: 38 48.38'N 123 45.59'W Depth Deck Offset: -0.30

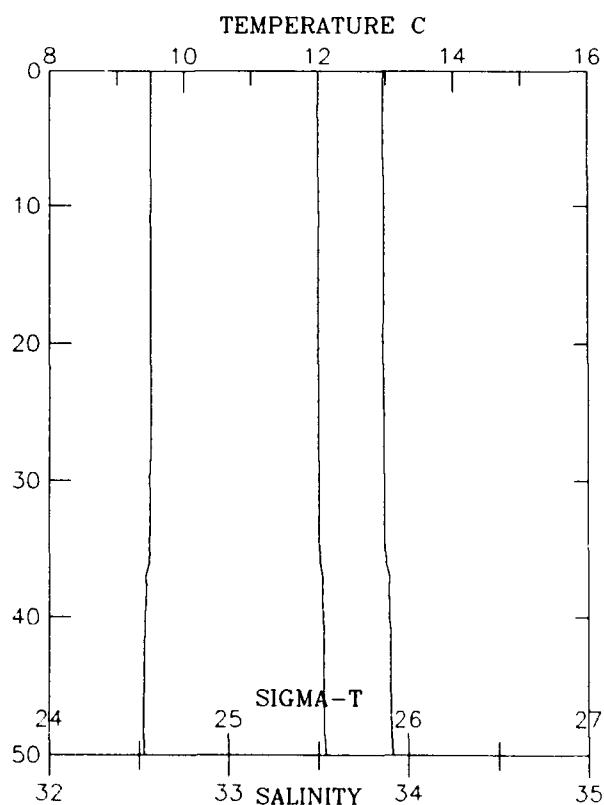
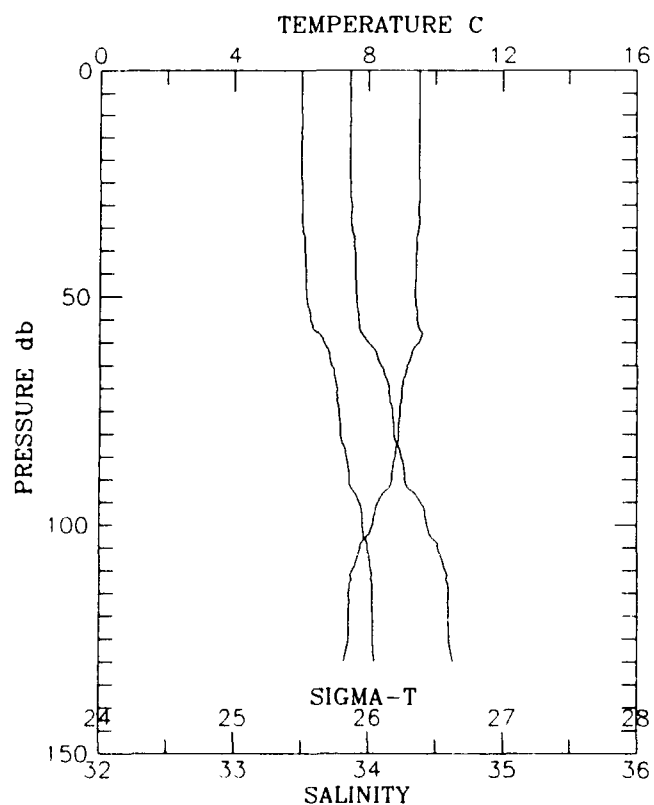
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.114	33.641	26.036	0.0000
10.0		9.117	33.640	26.035	0.0200
20.0		9.117	33.640	26.035	0.0400
30.0		9.110	33.642	26.038	0.0601
40.0		9.107	33.643	26.039	0.0801
50.0		9.096	33.644	26.042	0.1001
60.0		9.047	33.678	26.076	0.1201
70.0		8.963	33.748	26.144	0.1394
80.0		8.922	33.795	26.188	0.1584
90.0		8.786	33.832	26.238	0.1768
100.0		8.458	33.900	26.342	0.1946
110.0		8.104	33.951	26.434	0.2114
120.0		7.110	34.058	26.662	0.2266
123.0		7.108	34.060	26.664	0.2308



Cruise W8905 Station # 132 Depth m: 135 Time: 1989-05-11 13:00  
 Position: 38 47.26'N 123 47.12'W Depth Deck Offset: -0.30

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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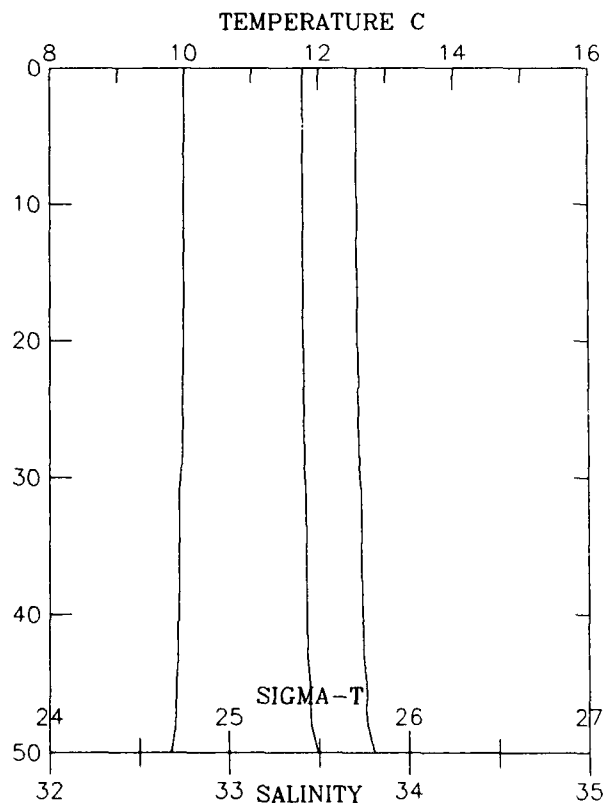
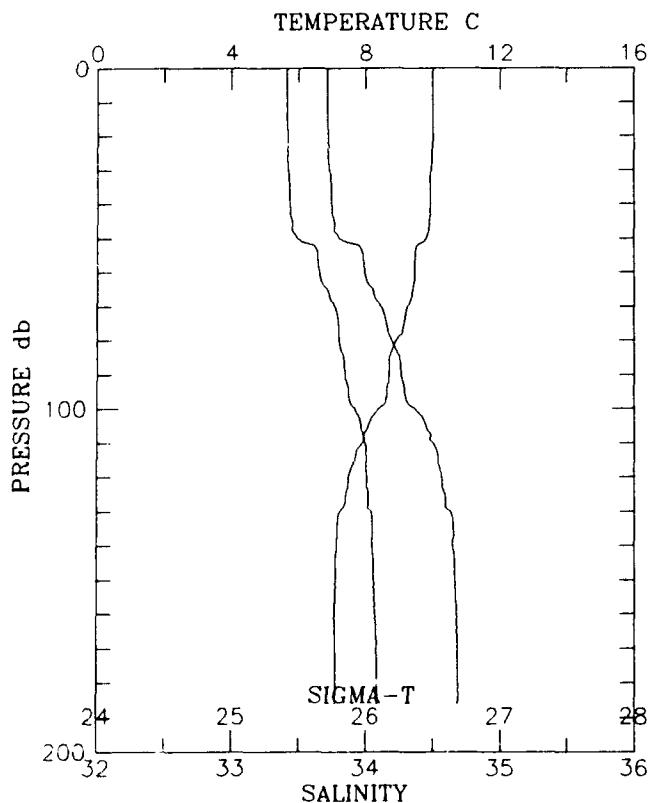
0.0	E	9.512	33.501	25.863	0.0000	0.0
10.0		9.504	33.502	25.865	0.0216	0.0
20.0		9.512	33.500	25.862	0.0433	0.0
30.0		9.492	33.506	25.870	0.0650	0.0
40.0		9.426	33.525	25.895	0.0865	0.0
50.0		9.404	33.541	25.912	0.1078	0.0
60.0		9.499	33.670	25.997	0.1289	0.0
70.0		8.986	33.764	26.153	0.1485	0.0
80.0		8.890	33.792	26.190	0.1673	0.0
90.0		8.693	33.857	26.272	0.1856	0.0
100.0		8.141	33.957	26.434	0.2025	0.0
110.0		7.518	34.017	26.572	0.2182	0.0
120.0		7.411	34.030	26.598	0.2331	0.0
130.0		7.271	34.047	26.631	0.2479	0.0



Cruise W8905 Station # 133 Depth m: 189 Time: 1989-05-11 13:39  
 Position: 38 45.91'N 123 48.82'W Depth Deck Offset: -0.30

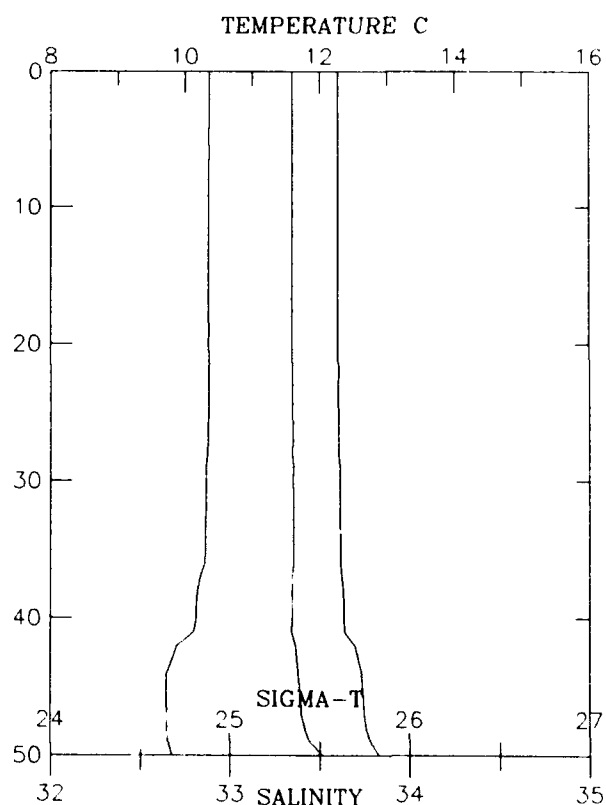
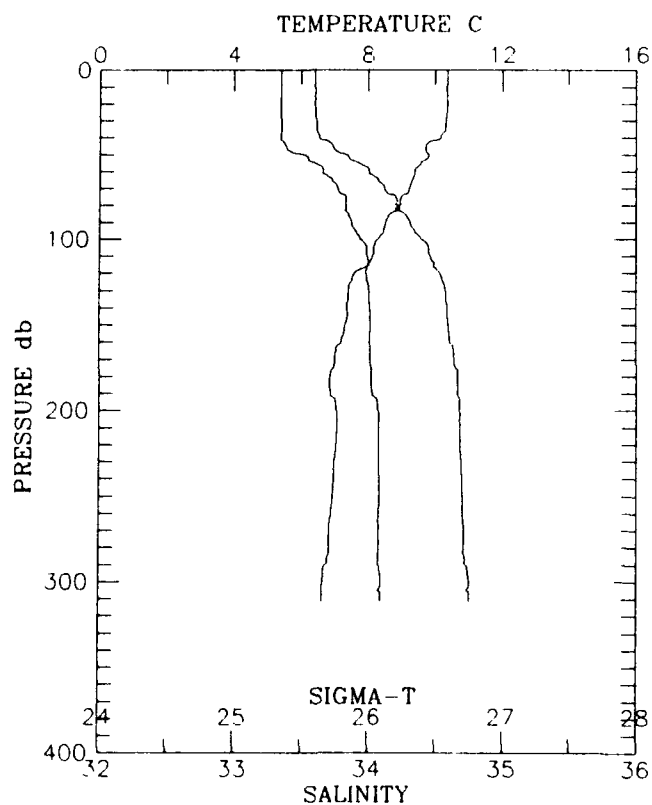
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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0.0	E	10.003	33.413	25.713	0.0000
10.0		9.997	33.414	25.714	0.0231
20.0		9.991	33.415	25.716	0.0461
30.0		9.948	33.423	25.730	0.0692
40.0		9.921	33.431	25.740	0.0920
50.0		9.805	33.492	25.807	0.1147
60.0		9.451	33.652	25.991	0.1356
70.0		9.244	33.770	26.117	0.1556
80.0		8.902	33.801	26.195	0.1747
90.0		8.685	33.843	26.262	0.1929
100.0		8.387	33.922	26.370	0.2106
110.0		7.878	33.994	26.502	0.2269
120.0		7.492	34.007	26.568	0.2423
130.0		7.220	34.044	26.635	0.2572
140.0		7.147	34.049	26.649	0.2716
150.0		7.098	34.060	26.665	0.2859
160.0		7.065	34.067	26.675	0.3001
170.0		7.084	34.079	26.682	0.3143
180.0		7.078	34.082	26.685	0.3284
186.0		7.075	34.082	26.685	0.3369



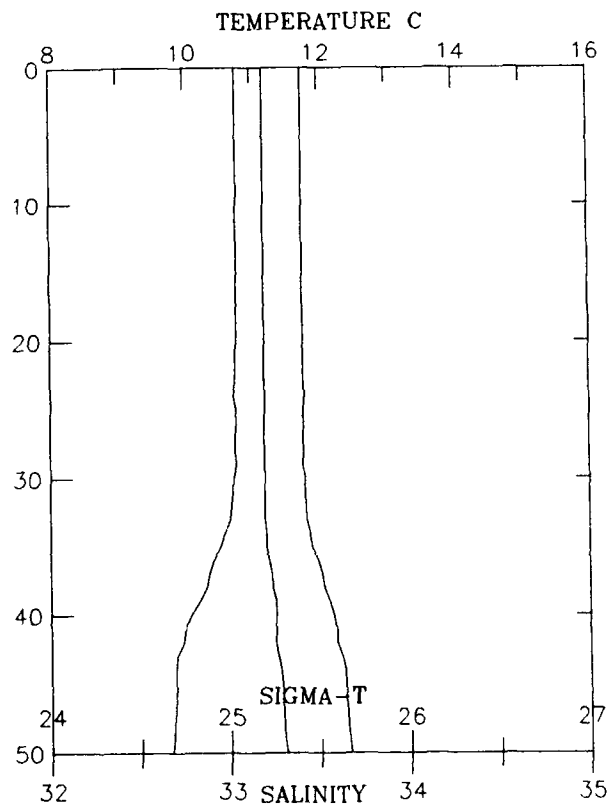
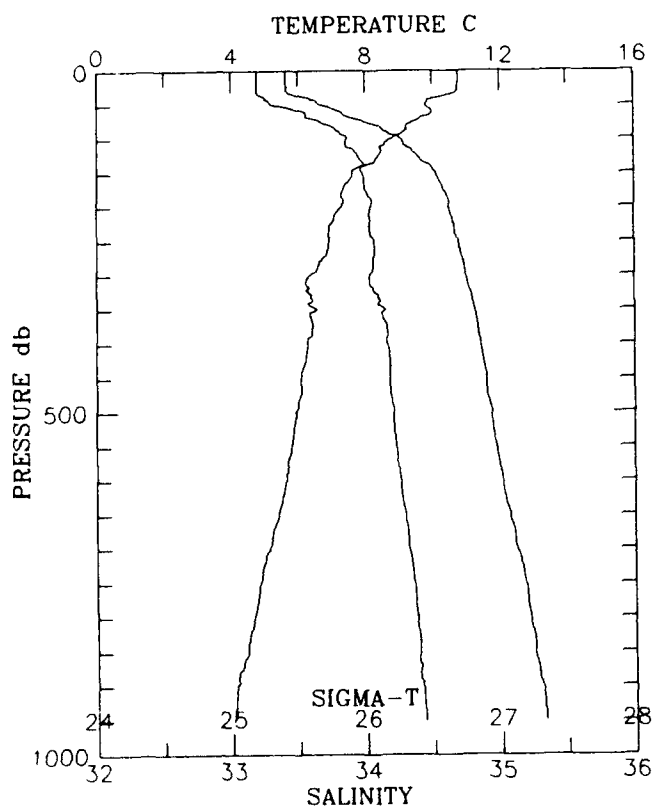
Cruise W8905 Station # 134 Depth m: 316 Time: 1989-05-11 14:18  
 Position: 38 44.65'N 123 50.63'W Depth Deck Offset: -0.30

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.359	33.349	25.602	0.0000	0.0
10.0		10.353	33.349	25.603	0.0241	0.0
20.0		10.357	33.349	25.603	0.0482	0.0
30.0		10.320	33.353	25.612	0.0724	0.0
40.0		10.170	33.348	25.634	0.0964	0.0
50.0		9.800	33.516	25.827	0.1194	0.0
60.0		9.389	33.664	26.010	0.1405	0.0
80.0		8.926	33.838	26.220	0.1790	0.0
100.0		8.299	33.941	26.398	0.2142	0.0
150.0		7.326	34.017	26.599	0.2915	0.0
200.0		7.060	34.077	26.684	0.3637	0.0
250.0		6.954	34.086	26.705	0.4343	0.0
300.0		6.648	34.096	26.755	0.5039	0.0
312.0		6.629	34.096	26.757	0.5203	0.0



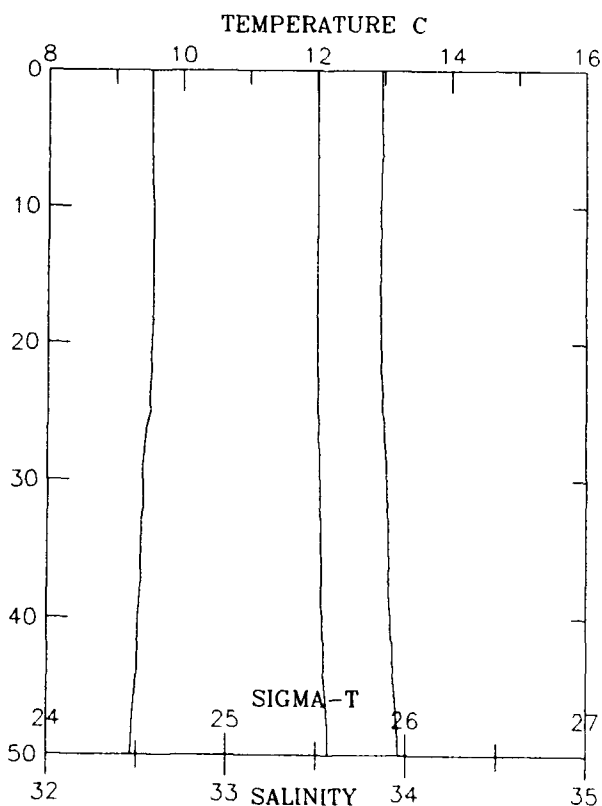
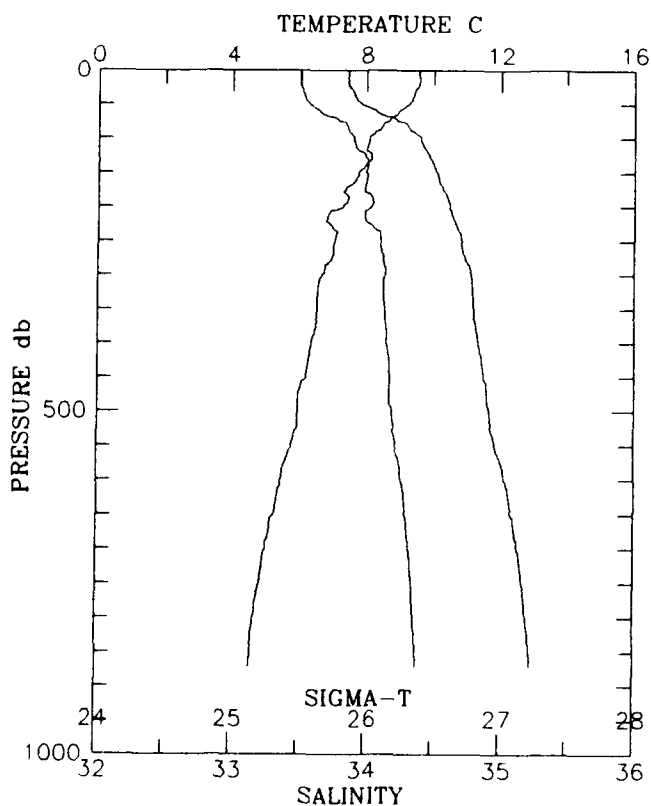
Cruise W8905 Station # 135 Depth m: 965 Time: 1989-05-11 15:17  
 Position: 38 43.07'N 123 52.86'W Depth Deck Offset: -0.30

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.775	33.195	25.410	0.0000	0.0
10.0		10.785	33.194	25.408	0.0260	0.0
20.0		10.768	33.194	25.411	0.0519	0.0
30.0		10.726	33.193	25.417	0.0779	0.0
40.0		10.085	33.254	25.575	0.1033	0.0
50.0		9.793	33.308	25.666	0.1272	0.0
60.0		9.997	33.539	25.812	0.1501	0.0
80.0		9.239	33.725	26.082	0.1924	0.0
100.0		8.808	33.863	26.259	0.2302	0.0
150.0		7.611	33.978	26.528	0.3144	0.0
200.0		7.312	34.044	26.623	0.3899	0.0
250.0		6.905	34.062	26.693	0.4621	0.0
300.0		6.372	34.034	26.742	0.5319	0.0
400.0		6.284	34.159	26.852	0.6641	0.0
500.0		5.913	34.204	26.935	0.7892	0.0
600.0		5.603	34.252	27.011	0.9079	0.0
700.0		5.116	34.315	27.119	1.0183	0.0
800.0		4.654	34.374	27.218	1.1186	0.0
900.0		4.111	34.409	27.304	1.2116	0.0
951.0		4.037	34.433	27.331	1.2562	0.0



Cruise W8905 Station # 136 Depth m: 885 Time: 1989-05-11 16:50  
 Position: 38 36.55'N 123 47.22'W Depth Deck Offset: -0.30

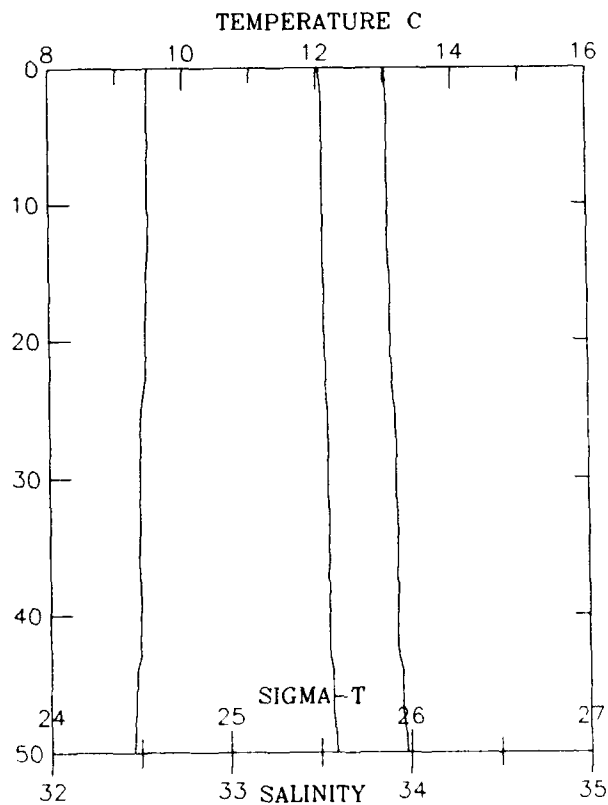
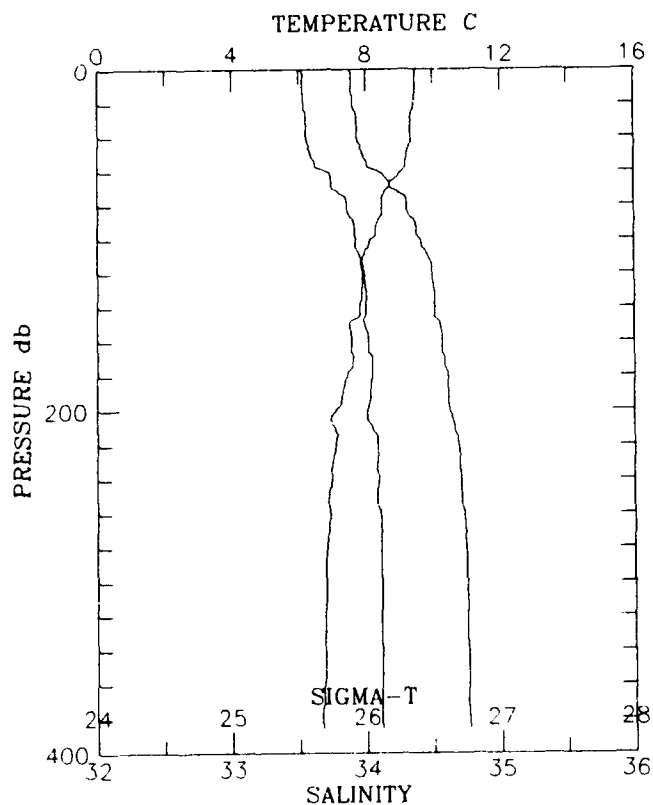
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.541	33.506	25.862	0.0000
10.0		9.569	33.503	25.855	0.0217
20.0		9.548	33.504	25.859	0.0434
30.0		9.425	33.520	25.892	0.0650
40.0		9.356	33.537	25.916	0.0863
50.0		9.252	33.568	25.957	0.1073
60.0		8.947	33.646	26.067	0.1276
80.0		8.482	33.846	26.296	0.1652
100.0		8.064	33.900	26.400	0.1996
150.0		7.742	33.998	26.525	0.2805
200.0		7.276	34.035	26.620	0.3565
250.0		7.045	34.107	26.709	0.4284
300.0		6.689	34.144	26.787	0.4970
400.0		6.362	34.152	26.837	0.6290
500.0		5.967	34.194	26.920	0.7552
600.0		5.495	34.266	27.036	0.8737
700.0		5.039	34.326	27.136	0.9817
800.0		4.709	34.368	27.207	1.0823
872.0		4.568	34.384	27.235	1.1519



Cruise W8905 Station # 137 Depth m: 400 Time: 1989-05-11 18:11  
 Position: 38 37.80'N 123 45.12'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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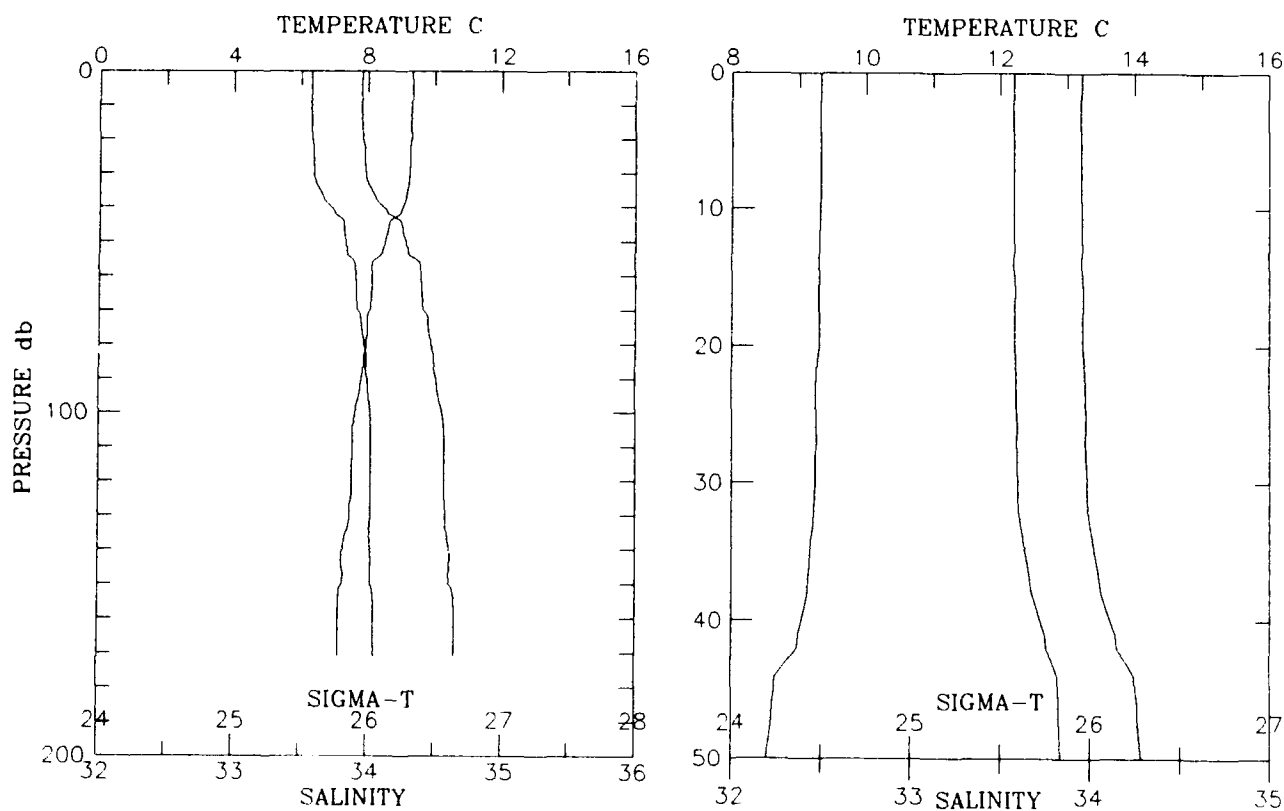
0.0	9.479	33.513	25.877	0.0000	0.0
10.0	9.469	33.530	25.893	0.0214	0.0
20.0	9.430	33.536	25.904	0.0427	0.0
30.0	9.347	33.552	25.929	0.0639	0.0
40.0	9.340	33.555	25.933	0.0849	0.0
50.0	9.225	33.588	25.977	0.1057	0.0
60.0	9.076	33.702	26.090	0.1261	0.0
80.0	8.476	33.857	26.305	0.1629	0.0
100.0	8.141	33.926	26.409	0.1972	0.0
150.0	7.509	33.992	26.553	0.2768	0.0
200.0	7.098	34.010	26.626	0.3519	0.0
250.0	6.881	34.081	26.711	0.4229	0.0
300.0	6.784	34.111	26.748	0.4918	0.0
386.0	6.676	34.112	26.763	0.6097	0.0





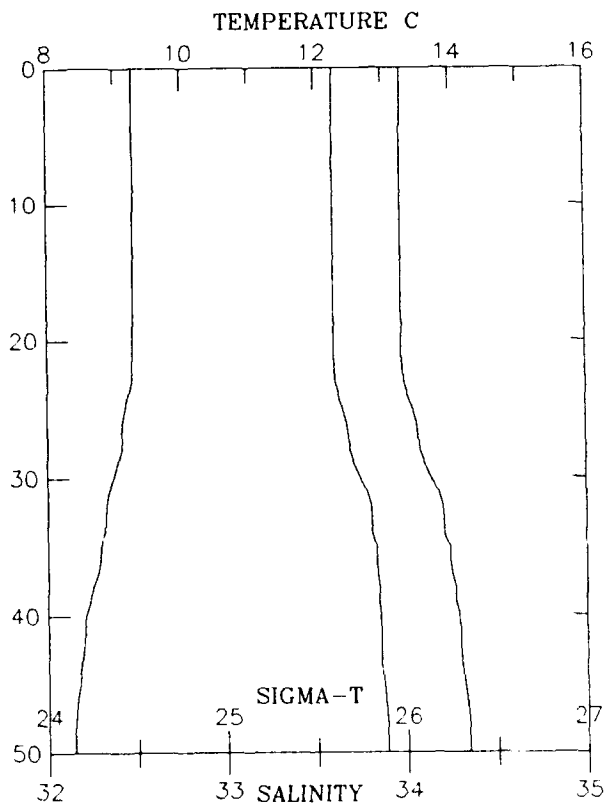
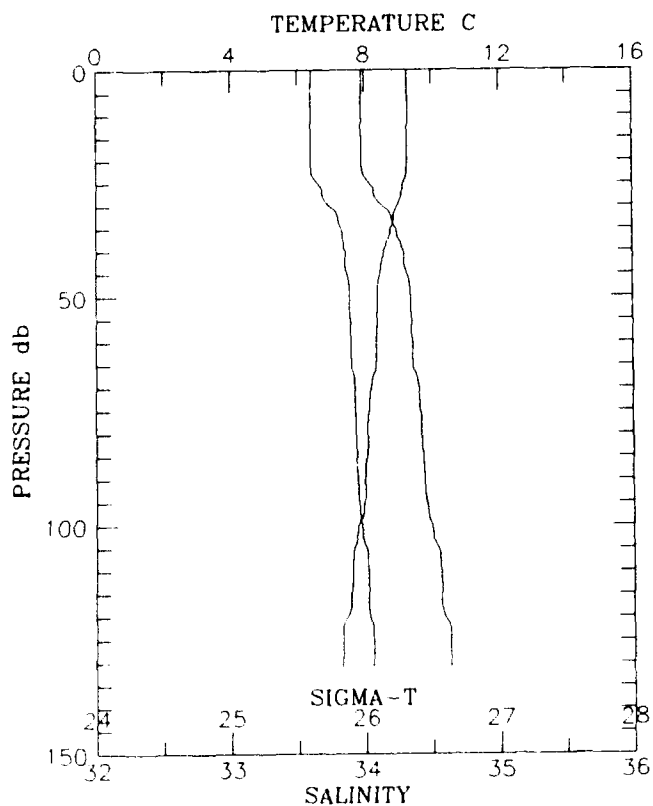
Cruise W8905 Station # 138 Depth m: 180 Time: 1989-05-11 19:18  
 Position: 38 39.70'N 123 42.80'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.321	33.578	25.954	0.0000
10.0		9.312	33.579	25.956	0.0208
20.0		9.300	33.582	25.960	0.0415
30.0		9.241	33.598	25.983	0.0621
40.0		9.045	33.722	26.111	0.0823
50.0		8.514	33.837	26.284	0.1005
60.0		8.137	33.912	26.399	0.1177
70.0		8.082	33.925	26.417	0.1342
80.0		7.958	33.976	26.476	0.1504
90.0		7.828	34.003	26.516	0.1662
100.0		7.653	34.024	26.558	0.1816
110.0		7.564	34.028	26.574	0.1967
120.0		7.554	34.029	26.576	0.2118
130.0		7.490	34.029	26.585	0.2268
140.0		7.286	34.022	26.609	0.2417
150.0		7.277	34.026	26.613	0.2564
160.0		7.158	34.053	26.651	0.2709
170.0		7.157	34.054	26.652	0.2853
171.0		7.157	34.055	26.653	0.2867



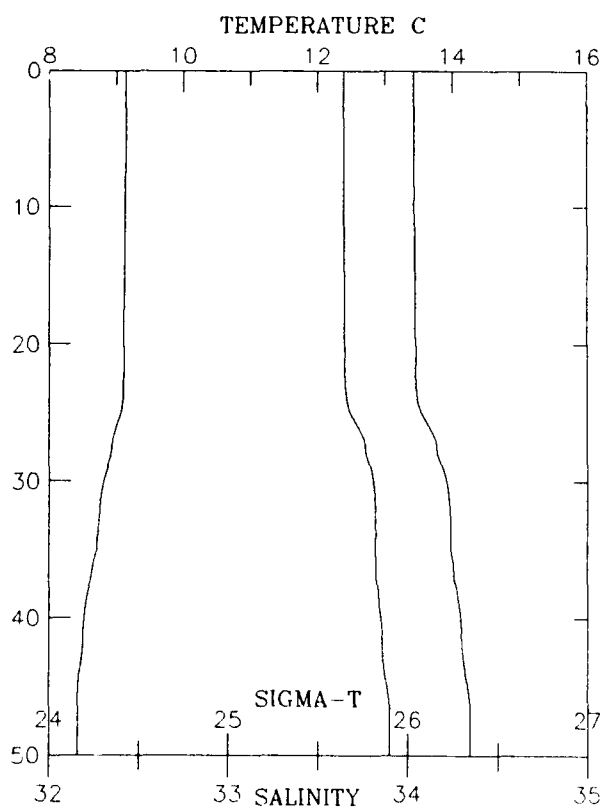
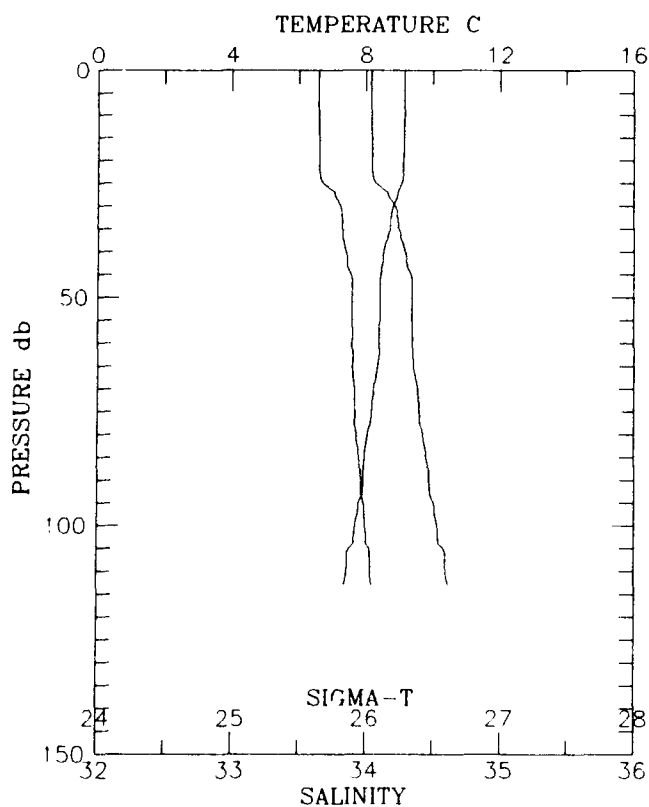
Cruise W8905 Station # 139 Depth m: 135 Time: 1989-05-11 20:12  
 Position: 38 41.50'N 123 40.40'W Depth Deck Offset: -0.30

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.284	33.605	25.981	0.0000	0.0
10.0		9.291	33.601	25.977	0.0205	0.0
20.0		9.281	33.602	25.979	0.0411	0.0
30.0		8.987	33.743	26.136	0.0611	0.0
40.0		8.562	33.853	26.289	0.0794	0.0
50.0		8.384	33.887	26.342	0.0968	0.0
60.0		8.347	33.897	26.356	0.1139	0.0
70.0		8.172	33.920	26.400	0.1308	0.0
80.0		8.081	33.932	26.423	0.1474	0.0
90.0		8.002	33.946	26.446	0.1638	0.0
100.0		7.790	33.976	26.500	0.1799	0.0
110.0		7.603	34.018	26.561	0.1953	0.0
120.0		7.463	34.031	26.591	0.2105	0.0
130.0		7.317	34.059	26.634	0.2251	0.0
131.0		7.316	34.058	26.633	0.2265	0.0



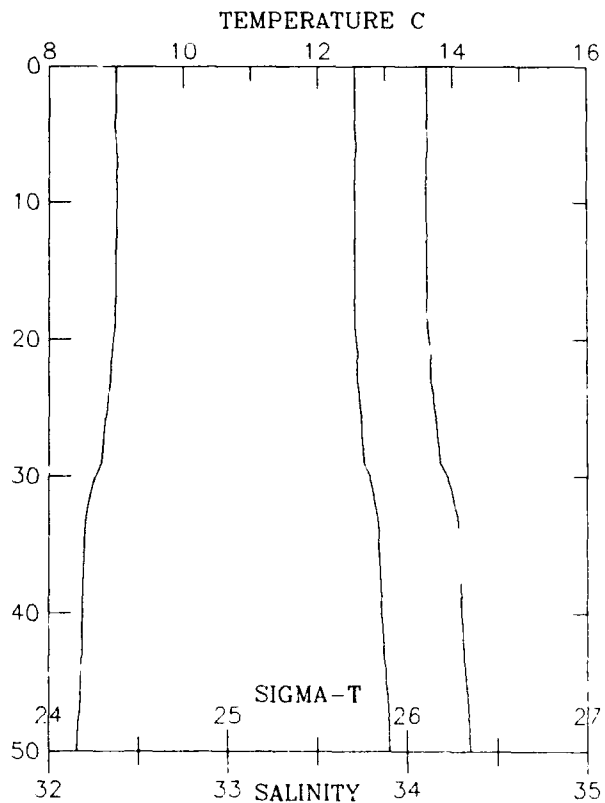
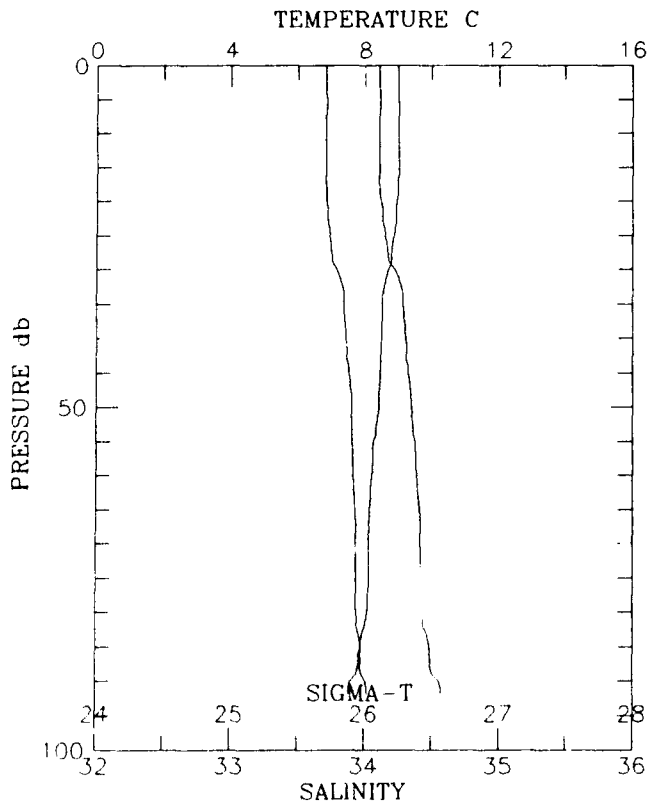
Cruise W8905 Station # 140 Depth m: 118 Time: 1989-05-11 20:55  
 Position: 38 42.80'N 123 38.50'W Depth Deck Offset: -0.30

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.140	33.646	26.036	0.0000	0.0
10.0		9.133	33.645	26.037	0.0200	0.0
20.0		9.113	33.651	26.045	0.0400	0.0
30.0		8.808	33.809	26.216	0.0594	0.0
40.0		8.514	33.849	26.292	0.0774	0.0
50.0		8.420	33.897	26.344	0.0947	0.0
60.0		8.412	33.898	26.347	0.1118	0.0
70.0		8.235	33.915	26.387	0.1289	0.0
80.0		8.050	33.932	26.428	0.1455	0.0
90.0		7.913	33.963	26.472	0.1617	0.0
100.0		7.691	33.996	26.531	0.1775	0.0
110.0		7.436	34.039	26.601	0.1926	0.0
113.0		7.375	34.049	26.618	0.1970	0.0



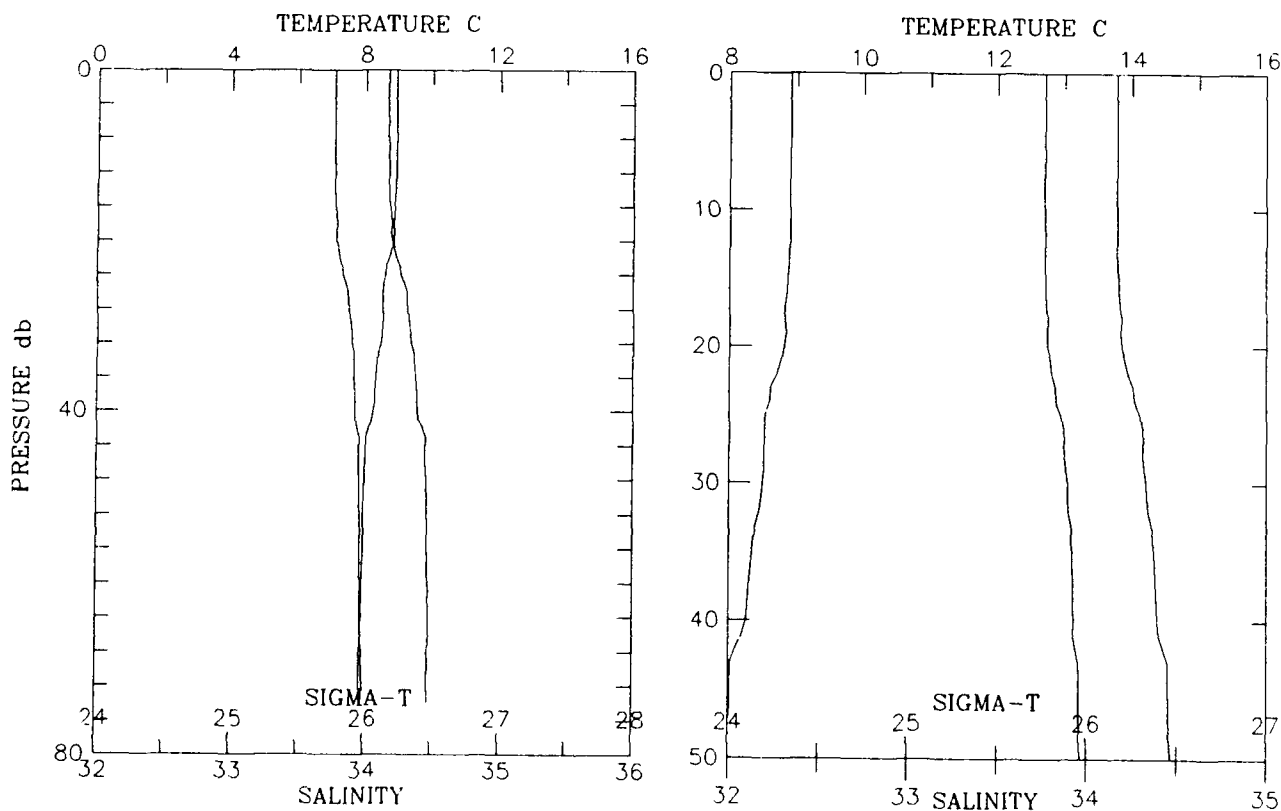
Cruise W8905 Station # 141 Depth m: 95 Time: 1989-05-11 21:48  
 Position: 38 44.10'N 123 36.10'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	8.997	33.708	26.108	0.0000
5.0		8.992	33.711	26.111	0.0097
10.0		9.009	33.708	26.106	0.0193
15.0		8.998	33.709	26.108	0.0290
20.0		8.953	33.714	26.119	0.0386
25.0		8.870	33.736	26.149	0.0482
30.0		8.695	33.792	26.221	0.0576
35.0		8.526	33.844	26.287	0.0665
40.0		8.497	33.858	26.302	0.0753
45.0		8.472	33.884	26.326	0.0840
50.0		8.417	33.902	26.349	0.0926
55.0		8.273	33.907	26.375	0.1011
60.0		8.221	33.918	26.391	0.1095
65.0		8.156	33.932	26.412	0.1178
70.0		8.134	33.935	26.417	0.1261
75.0		8.124	33.937	26.421	0.1343
80.0		8.101	33.939	26.426	0.1426
85.0		7.860	33.969	26.485	0.1506
90.0		7.584	34.009	26.556	0.1585
92.0		7.529	34.019	26.572	0.1615



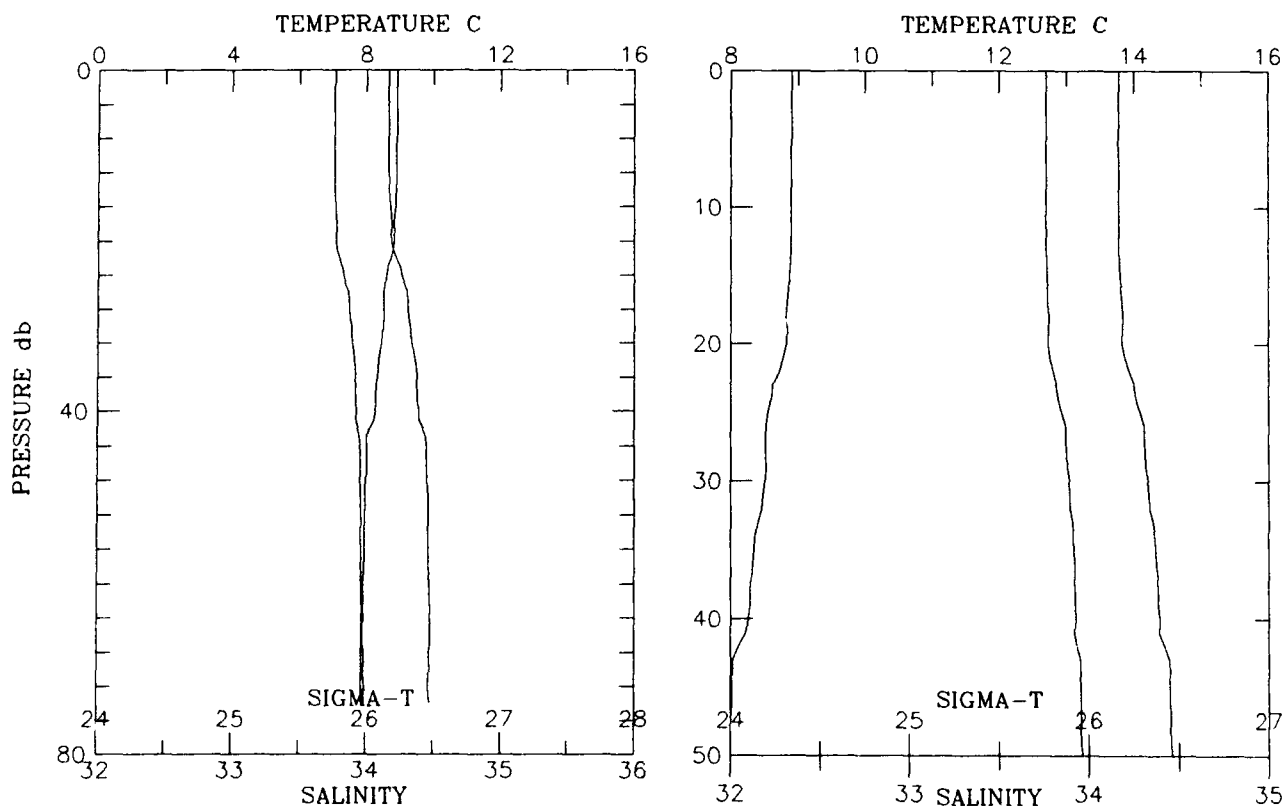
Cruise W8905 Station # 141B Depth m: 78 Time: 1989-05-11 22:47  
 Position: 38 45.30'N 123 35.40'W Depth Deck Offset: -0.20

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	8.997	33.708	26.108	0.0000
5.0		8.992	33.711	26.111	0.0097
10.0		9.009	33.708	26.106	0.0193
15.0		8.998	33.709	26.108	0.0290
20.0		8.953	33.714	26.119	0.0386
25.0		8.870	33.736	26.149	0.0482
30.0		8.695	33.792	26.221	0.0576
35.0		8.526	33.844	26.287	0.0665
40.0		8.497	33.858	26.302	0.0753
45.0		8.472	33.884	26.326	0.0840
50.0		8.417	33.902	26.349	0.0926
55.0		8.273	33.907	26.375	0.1011
60.0		8.221	33.918	26.391	0.1095
65.0		8.156	33.932	26.412	0.1178
70.0		8.134	33.935	26.417	0.1261
75.0		8.124	33.937	26.421	0.1343
80.0		8.101	33.939	26.426	0.1426
85.0		7.860	33.969	26.485	0.1506
90.0		7.584	34.009	26.556	0.1585
92.0		7.529	34.019	26.572	0.1615



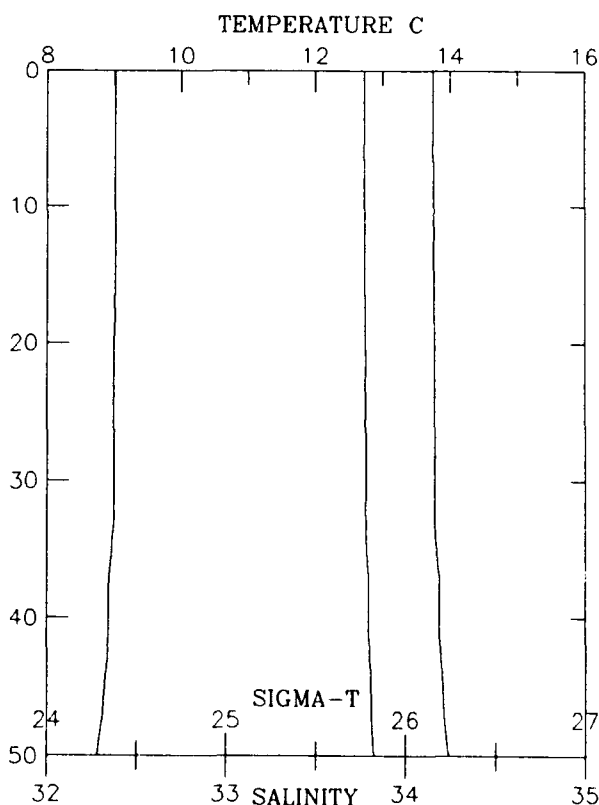
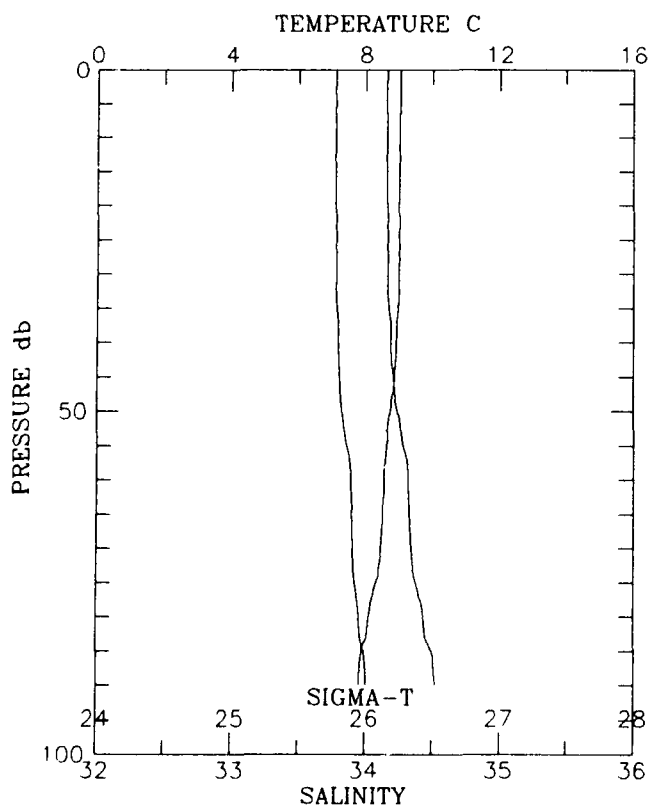
Cruise W8905 Station # 142 Depth m: 80 Time: 1989-05-11 23:49  
 Position: 38 39.83'N 123 27.67'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	8.907	33.764	26.166	0.0000
5.0		8.905	33.762	26.164	0.0094
10.0		8.899	33.762	26.165	0.0188
15.0		8.866	33.767	26.174	0.0281
20.0		8.830	33.774	26.186	0.0375
25.0		8.552	33.846	26.284	0.0465
30.0		8.507	33.890	26.326	0.0553
35.0		8.344	33.916	26.371	0.0638
40.0		8.259	33.925	26.391	0.0722
45.0		8.018	33.954	26.450	0.0804
50.0		7.974	33.961	26.462	0.0884
55.0		7.960	33.962	26.465	0.0964
60.0		7.915	33.967	26.475	0.1044
65.0		7.908	33.968	26.477	0.1124
70.0		7.927	33.966	26.473	0.1204
74.0		7.929	33.967	26.473	0.1267



Cruise W8905 Station # 143 Depth m: 95 Time: 1989-05-12 00:25  
 Position: 38 38.43'N 123 29.24'W Depth Deck Offset: -0.30

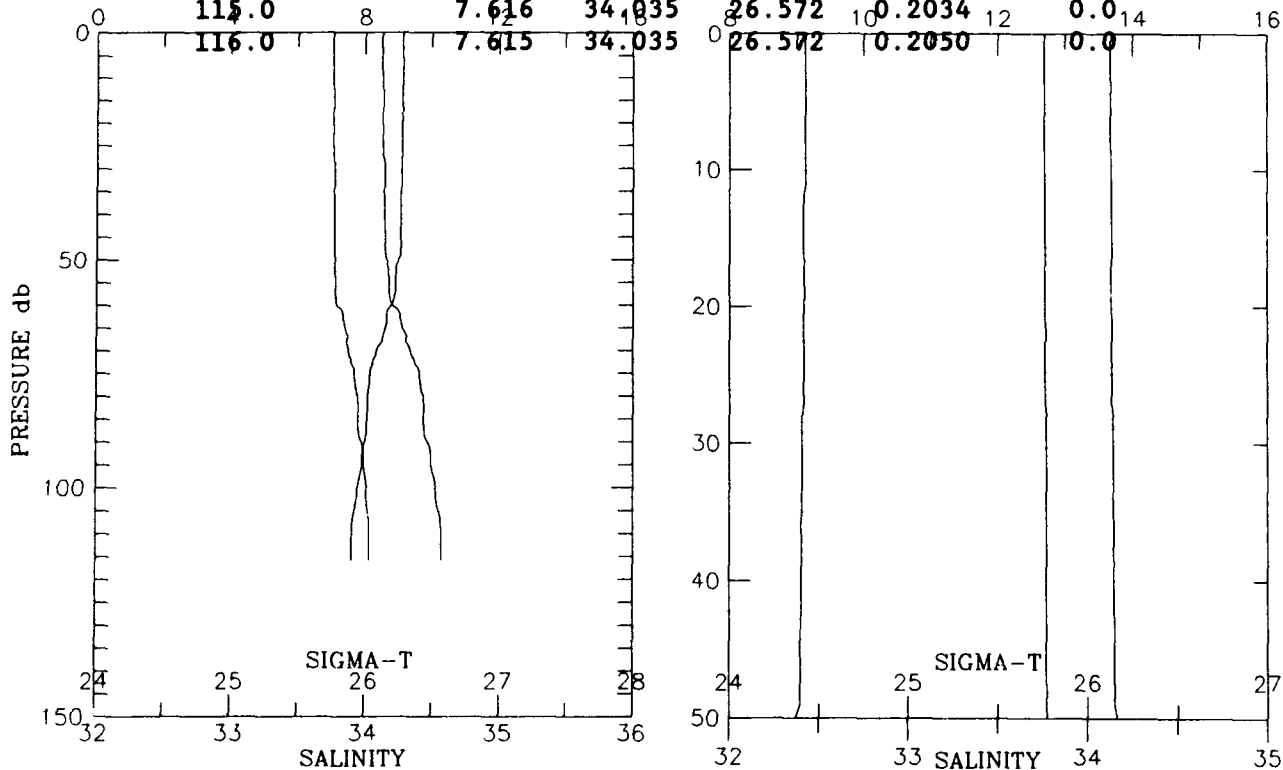
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.016	33.775	26.157	0.0000
5.0		9.016	33.774	26.156	0.0094
10.0		9.011	33.775	26.158	0.0188
15.0		9.011	33.775	26.158	0.0283
20.0		8.996	33.778	26.163	0.0377
25.0		8.997	33.779	26.163	0.0471
30.0		8.996	33.779	26.163	0.0565
35.0		8.963	33.785	26.173	0.0659
40.0		8.914	33.797	26.190	0.0753
45.0		8.860	33.807	26.207	0.0845
50.0		8.747	33.825	26.238	0.0937
55.0		8.642	33.858	26.281	0.1027
60.0		8.559	33.893	26.320	0.1114
65.0		8.524	33.898	26.329	0.1201
70.0		8.469	33.907	26.345	0.1287
75.0		8.329	33.921	26.377	0.1373
80.0		8.111	33.956	26.437	0.1456
85.0		7.903	33.988	26.493	0.1536
90.0		7.814	34.006	26.521	0.1615



Cruise W8905 Station # 144 Depth m: 119 Time: 1989-05-12 01:23  
 Position: 38 36.62'N 123 31.83'W Depth Deck Offset: -0.30

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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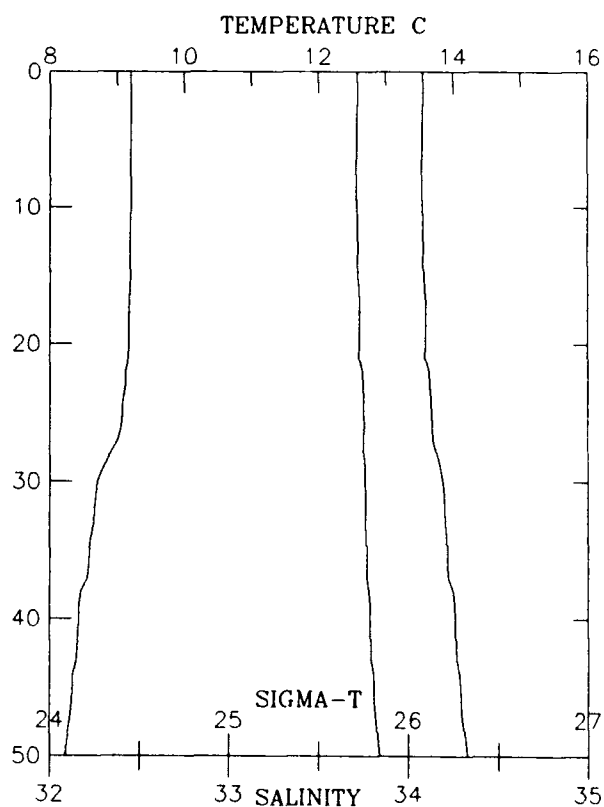
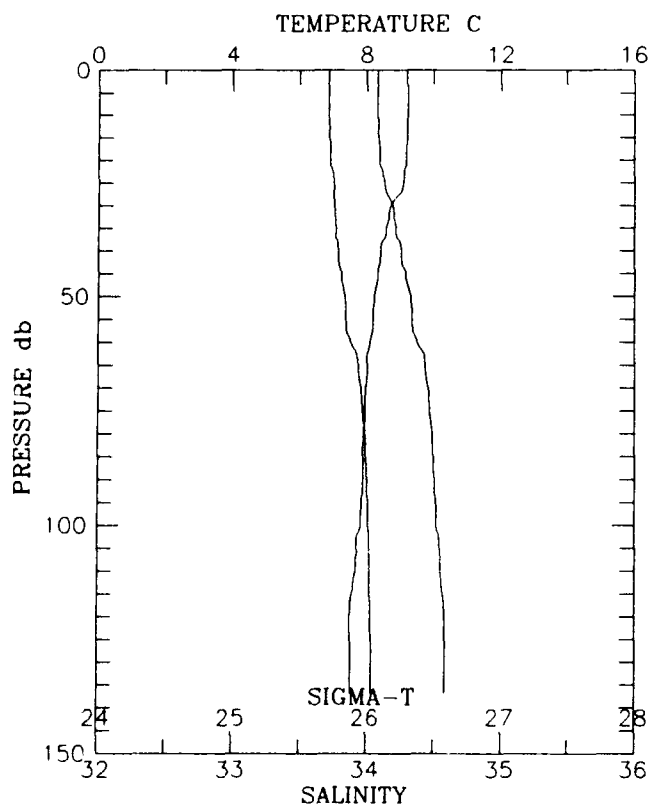
0.0	E	9.129	33.761	26.128	0.0000	0.0
5.0		9.131	33.760	26.127	0.0096	0.0
10.0		9.130	33.761	26.128	0.0191	0.0
15.0		9.105	33.764	26.134	0.0287	0.0
20.0		9.112	33.763	26.132	0.0382	0.0
25.0		9.108	33.763	26.133	0.0478	0.0
30.0		9.084	33.769	26.142	0.0573	0.0
35.0		9.080	33.768	26.141	0.0668	0.0
40.0		9.072	33.770	26.144	0.0764	0.0
45.0		9.052	33.772	26.149	0.0859	0.0
50.0		8.982	33.775	26.162	0.0954	0.0
55.0		8.900	33.780	26.179	0.1048	0.0
60.0		8.776	33.787	26.204	0.1141	0.0
65.0		8.606	33.849	26.278	0.1231	0.0
70.0		8.349	33.879	26.341	0.1319	0.0
75.0		8.151	33.922	26.405	0.1403	0.0
80.0		8.079	33.945	26.433	0.1486	0.0
85.0		8.064	33.950	26.440	0.1567	0.0
90.0		7.991	33.973	26.469	0.1649	0.0
95.0		7.917	33.991	26.494	0.1728	0.0
100.0		7.783	34.011	26.529	0.1806	0.0
105.0		7.695	34.022	26.551	0.1883	0.0
110.0		7.620	34.034	26.571	0.1959	0.0
115.0		7.616	34.035	26.572	0.2034	0.0
116.0		7.615	34.035	26.572	0.2050	0.0





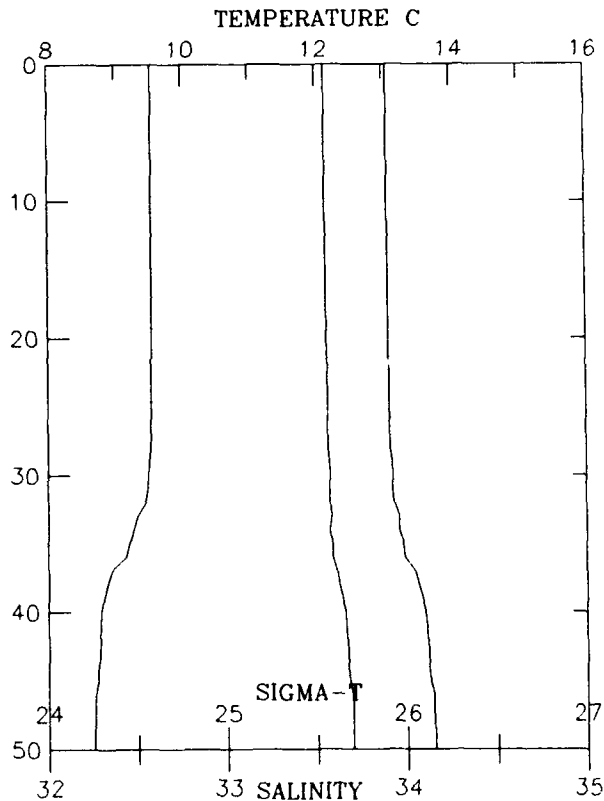
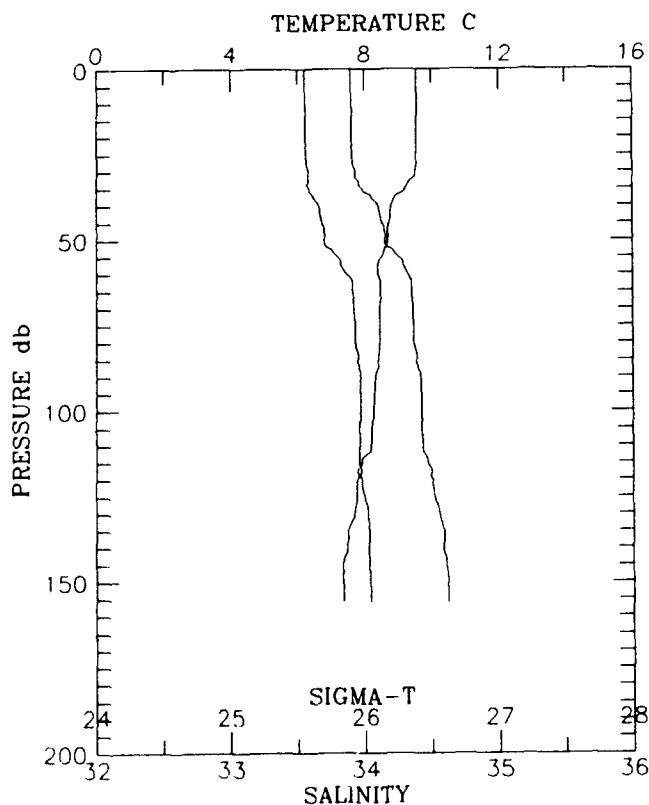
Cruise W8905 Station # 145 Depth m: 141 Time: 1989-05-12 02:04  
 Position: 38 35.22'N 123 33.77'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 9.204	33.718	26.083	0.0000	0.0
10.0	9.207	33.715	26.079	0.0196	0.0
20.0	9.179	33.730	26.096	0.0391	0.0
30.0	8.708	33.759	26.193	0.0582	0.0
40.0	8.429	33.789	26.259	0.0765	0.0
50.0	8.224	33.838	26.328	0.0942	0.0
60.0	8.117	33.883	26.379	0.1114	0.0
70.0	7.978	33.958	26.459	0.1277	0.0
80.0	7.912	33.992	26.495	0.1437	0.0
90.0	7.892	34.003	26.507	0.1594	0.0
100.0	7.841	34.013	26.522	0.1750	0.0
110.0	7.688	34.022	26.552	0.1903	0.0
120.0	7.520	34.034	26.585	0.2055	0.0
130.0	7.525	34.037	26.587	0.2204	0.0
137.0	7.525	34.037	26.587	0.2309	0.0



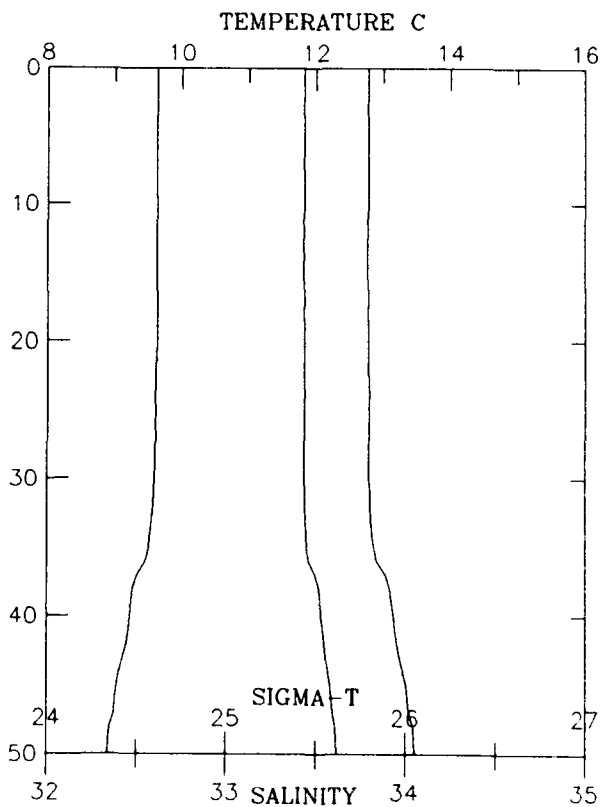
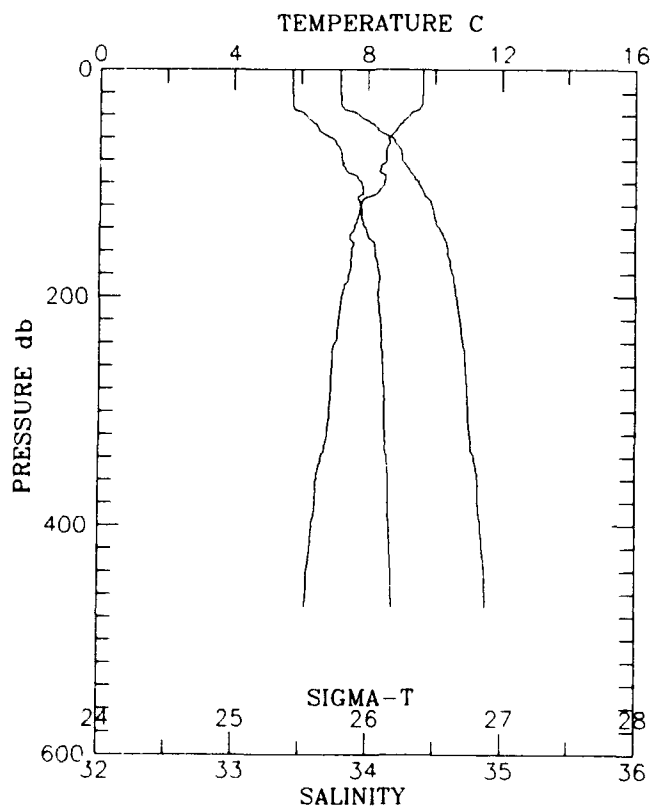
Cruise W8905 Station # 146 Depth m: 163 Time: 1989-05-12 03:05  
 Position: 38 33.12'N 123 36.80'W Depth Deck Offset: -0.30

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.551	33.553	25.897	0.0000	0.0
10.0		9.552	33.554	25.898	0.0213	0.0
20.0		9.548	33.557	25.901	0.0426	0.0
30.0		9.493	33.575	25.924	0.0639	0.0
40.0		8.785	33.657	26.101	0.0843	0.0
50.0		8.673	33.699	26.151	0.1035	0.0
60.0		8.390	33.860	26.320	0.1217	0.0
70.0		8.447	33.919	26.358	0.1388	0.0
80.0		8.436	33.926	26.365	0.1559	0.0
90.0		8.314	33.963	26.412	0.1727	0.0
100.0		8.248	33.965	26.424	0.1892	0.0
110.0		8.178	33.959	26.430	0.2057	0.0
120.0		7.768	33.974	26.502	0.2218	0.0
130.0		7.665	34.019	26.552	0.2373	0.0
140.0		7.471	34.029	26.588	0.2524	0.0
150.0		7.319	34.035	26.615	0.2673	0.0
156.0		7.331	34.040	26.617	0.2761	0.0



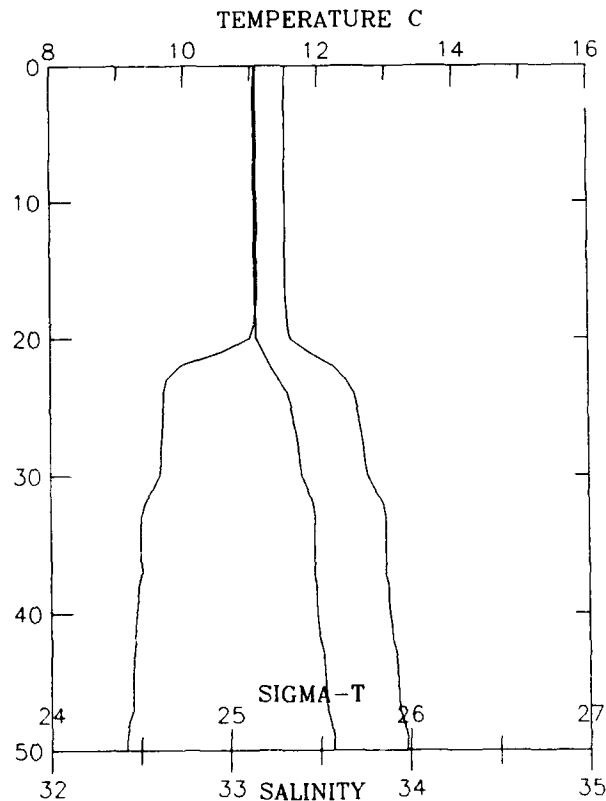
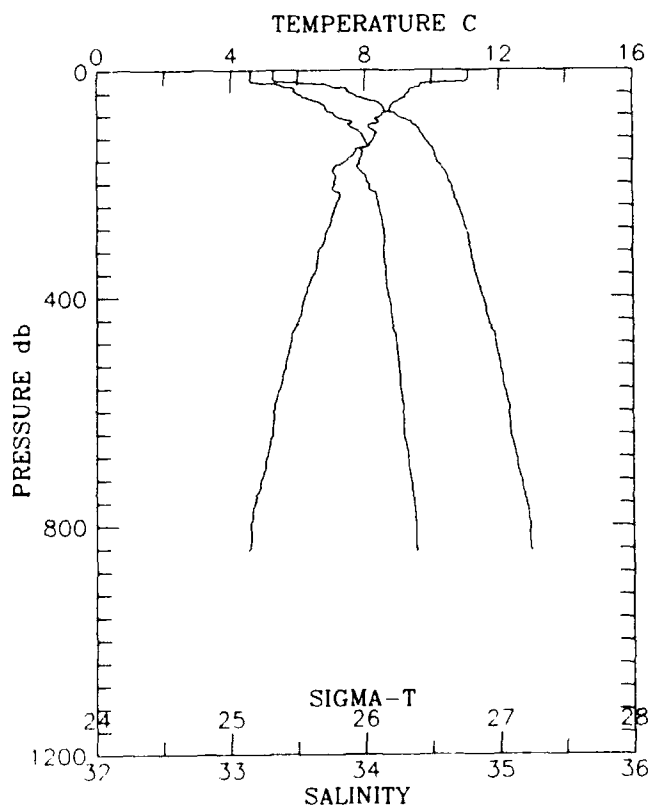
Cruise W8905 Station # 147 Depth m: 480 Time: 1989-05-12 04:13  
 Position: 38 31.00'N 123 40.32'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)		TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.632	33.434	25.791	0.0000	0.0
10.0		9.631	33.434	25.791	0.0223	0.0
20.0		9.632	33.433	25.790	0.0447	0.0
30.0		9.601	33.436	25.797	0.0670	0.0
40.0		9.237	33.532	25.932	0.0888	0.0
50.0		8.911	33.618	26.051	0.1093	0.0
60.0		8.604	33.726	26.182	0.1288	0.0
80.0		8.540	33.804	26.253	0.1653	0.0
100.0		8.478	33.950	26.377	0.2003	0.0
150.0		7.497	34.026	26.582	0.2802	0.0
200.0		7.220	34.080	26.664	0.3536	0.0
250.0		6.949	34.109	26.724	0.4242	0.0
300.0		6.848	34.124	26.750	0.4931	0.0
400.0		6.360	34.167	26.849	0.6256	0.0
472.0		6.176	34.188	26.889	0.7170	0.0



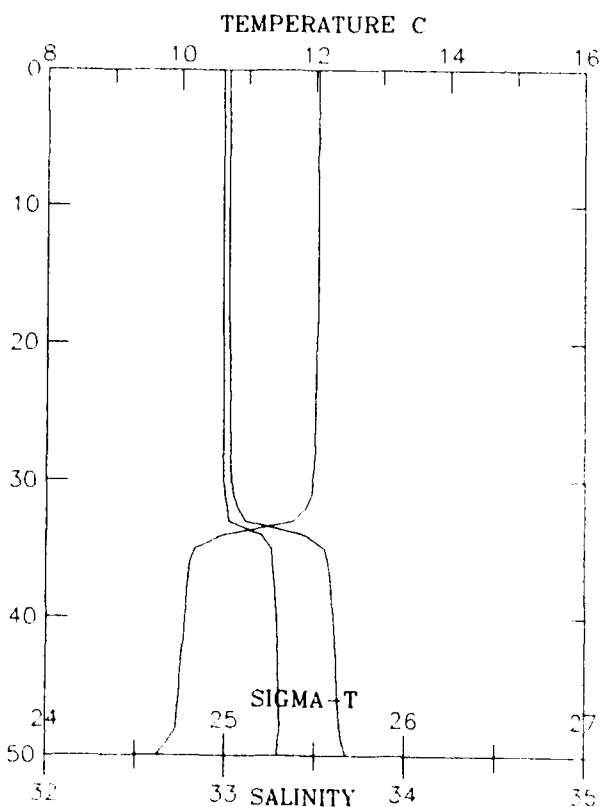
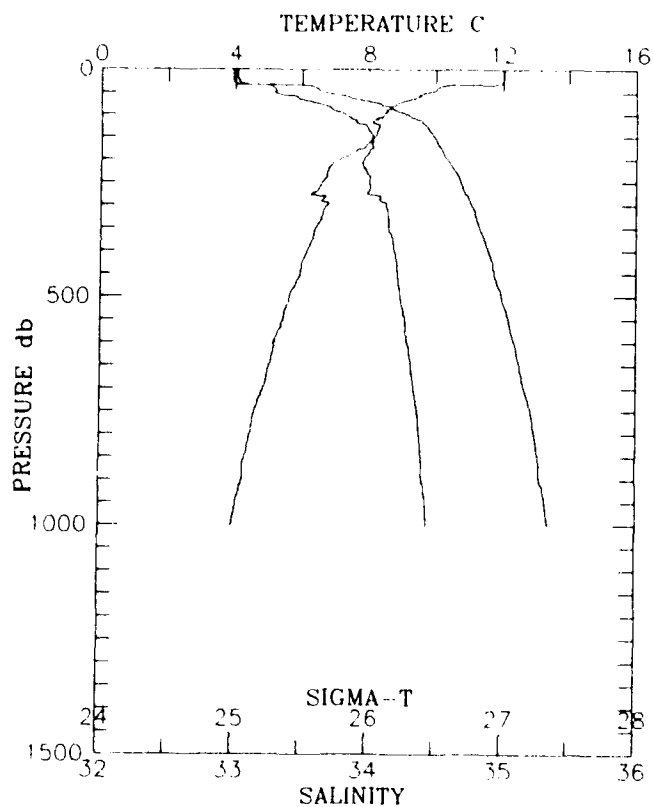
Cruise W8905 Station # 148 Depth m: 853 Time: 1989-05-12 05:24  
 Position: 38 29.04'N 123 42.55'W Depth Deck Offset: -0.30

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	11.082	33.147	25.319	0.0000
10.0		11.081	33.145	25.317	0.0268
20.0		10.976	33.152	25.341	0.0536
30.0		9.625	33.403	25.768	0.0772
40.0		9.273	33.487	25.891	0.0990
50.0		9.118	33.572	25.982	0.1200
60.0		8.806	33.693	26.126	0.1398
80.0		8.481	33.776	26.240	0.1775
100.0		8.099	33.891	26.388	0.2123
150.0		7.646	33.975	26.521	0.2933
200.0		7.087	34.029	26.642	0.3687
250.0		7.061	34.112	26.711	0.4402
300.0		6.782	34.146	26.776	0.5085
400.0		6.183	34.175	26.878	0.6392
500.0		5.710	34.242	26.990	0.7599
600.0		5.279	34.286	27.077	0.8722
700.0		5.019	34.326	27.139	0.9790
800.0		4.586	34.379	27.230	1.0779
844.0		4.525	34.380	27.237	1.1201



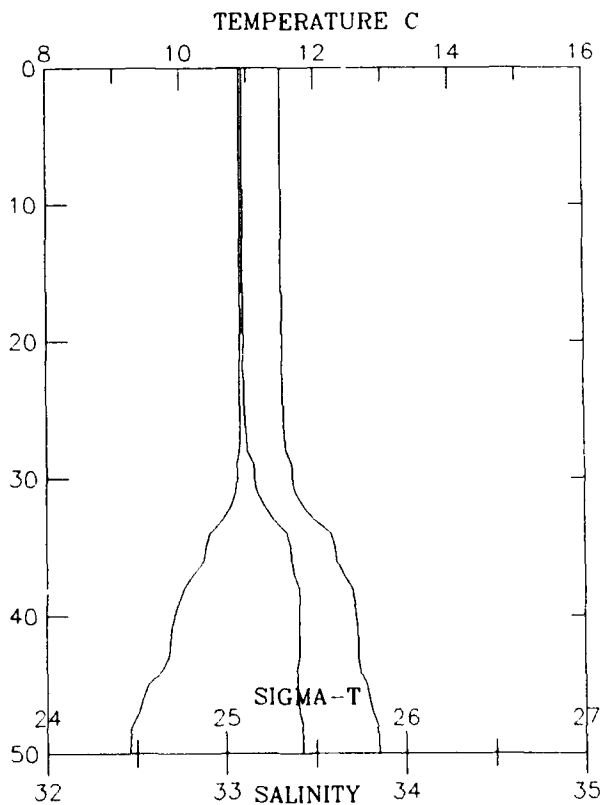
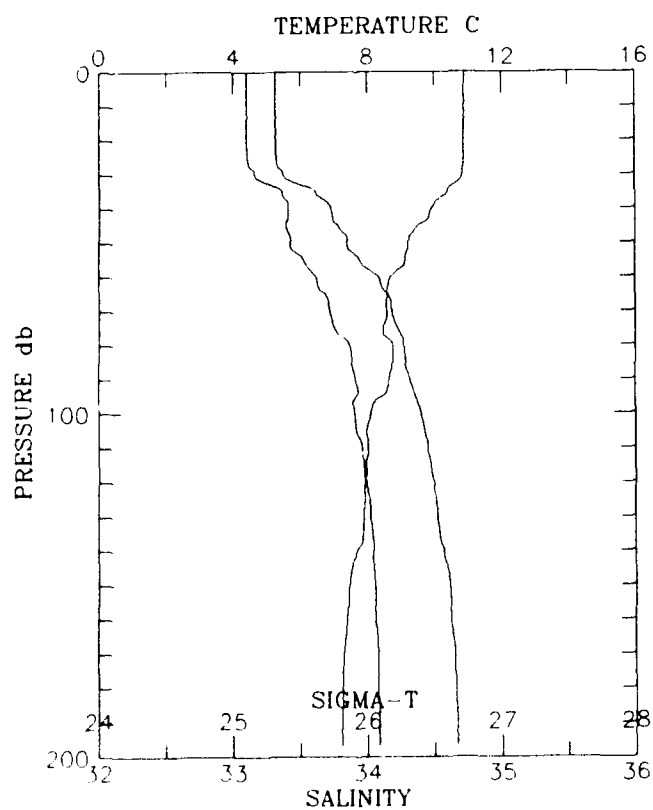
Cruise W8905 Station # 149 Depth m: 1013 Time: 1989-05-12 07:13  
 Position: 38 20.00'N 123 40.00'W Depth Deck Offset: -0.30

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	12.039	32.985	25.017	0.0000	0.0
10.0		12.040	32.984	25.016	0.0297	0.0
20.0		12.023	32.986	25.021	0.0594	0.0
30.0		11.969	32.993	25.036	0.0890	0.0
40.0		10.064	33.286	25.604	0.1152	0.0
50.0		9.652	33.292	25.677	0.1392	0.0
60.0		9.424	33.461	25.846	0.1620	0.0
80.0		8.706	33.688	26.137	0.2034	0.0
100.0		8.431	33.816	26.279	0.2405	0.0
150.0		8.148	34.023	26.485	0.3238	0.0
200.0		7.109	33.962	26.586	0.4017	0.0
250.0		6.595	34.002	26.688	0.4746	0.0
300.0		6.760	34.131	26.767	0.5439	0.0
400.0		6.161	34.194	26.896	0.6734	0.0
500.0		5.643	34.239	26.995	0.7933	0.0
600.0		5.192	34.294	27.093	0.9047	0.0
700.0		4.866	34.338	27.166	1.0087	0.0
800.0		4.492	34.383	27.243	1.1055	0.0
900.0		4.274	34.411	27.289	1.1973	0.0
1000.0		3.957	34.442	27.347	1.2846	0.0
1003.0		3.958	34.442	27.347	1.2872	0.0



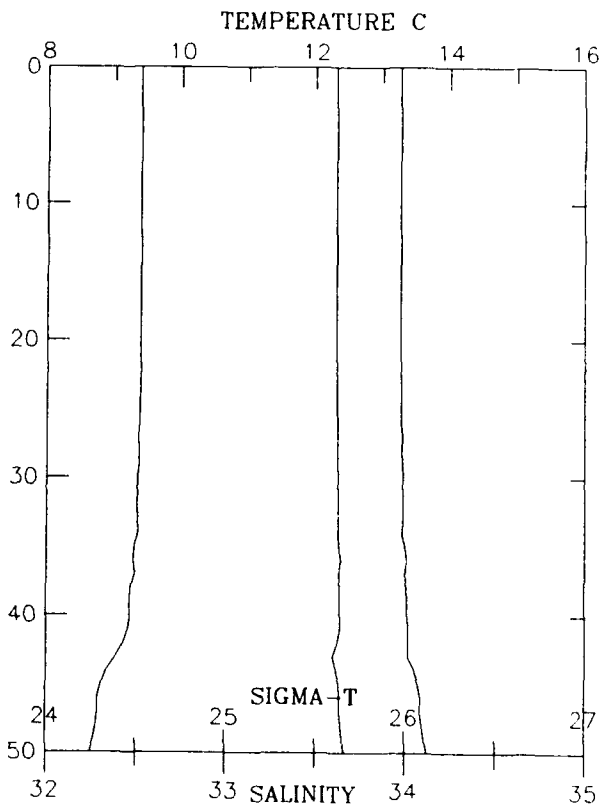
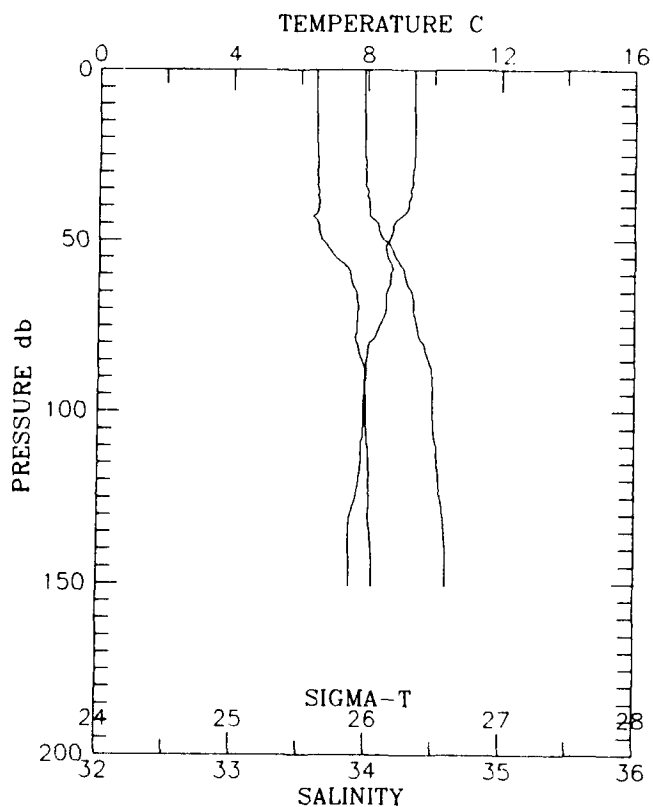
Cruise W8905 Station # 150 Depth m: 320 Time: 1989-05-12 09:20  
 Position: 38 23.70'N 123 34.60'W Depth Deck Offset: -0.25

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.896	33.101	25.316	0.0000	0.0
10.0		10.894	33.100	25.315	0.0268	0.0
20.0		10.889	33.103	25.319	0.0537	0.0
30.0		10.842	33.160	25.371	0.0804	0.0
40.0		9.911	33.409	25.725	0.1049	0.0
50.0		9.228	33.426	25.850	0.1274	0.0
60.0		8.698	33.621	26.085	0.1483	0.0
80.0		8.755	33.865	26.268	0.1858	0.0
100.0		8.100	33.902	26.397	0.2206	0.0
150.0		7.449	34.054	26.611	0.2993	0.0
197.0		7.233	34.089	26.669	0.3673	0.0



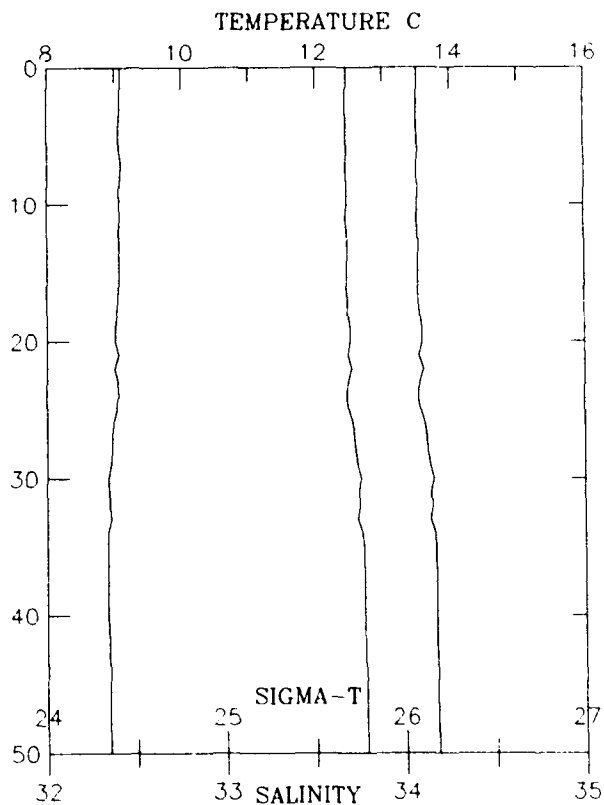
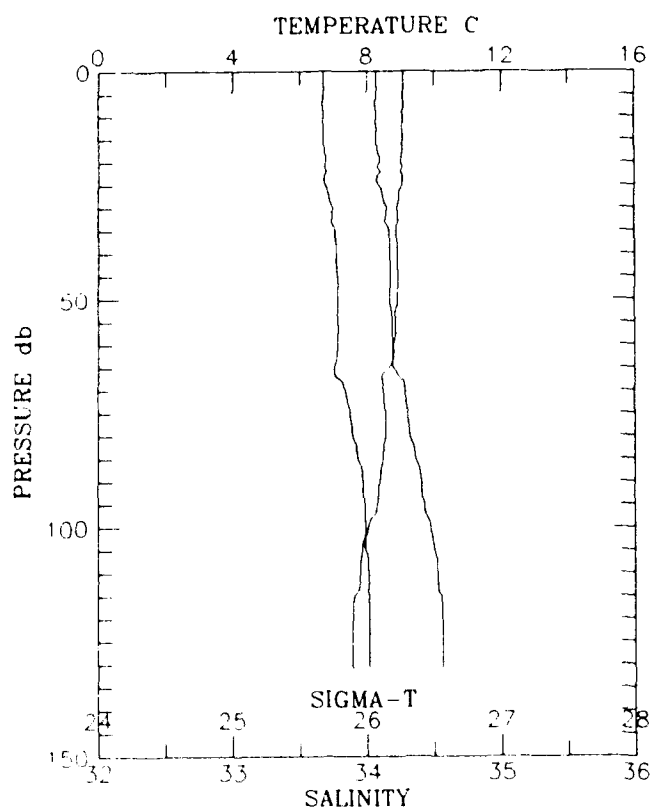
Cruise W8905 Station # 151 Depth m: 155 Time: 1989-05-12 11:04  
 Position: 38 27.30'N 123 30.20'W Depth Deck Offset: -0.25

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.394	33.617	25.973	0.0000	0.0
10.0		9.397	33.617	25.972	0.0206	0.0
20.0		9.397	33.618	25.973	0.0412	0.0
30.0		9.354	33.628	25.988	0.0618	0.0
40.0		9.245	33.637	26.013	0.0822	0.0
50.0		8.657	33.662	26.124	0.1020	0.0
60.0		8.724	33.876	26.281	0.1204	0.0
70.0		8.574	33.935	26.351	0.1378	0.0
80.0		8.084	33.928	26.420	0.1548	0.0
90.0		7.939	33.987	26.487	0.1709	0.0
100.0		7.920	33.995	26.496	0.1867	0.0
110.0		7.831	34.009	26.521	0.2025	0.0
120.0		7.772	34.021	26.539	0.2180	0.0
130.0		7.533	34.019	26.572	0.2333	0.0
140.0		7.501	34.041	26.593	0.2483	0.0
150.0		7.505	34.048	26.598	0.2632	0.0
151.0		7.505	34.048	26.598	0.2647	0.0



Cruise W8905 Station # 152 Depth m: 136 Time: 1989-05-12 11:55  
 Position: 38 29.28'N 123 27.42'W Depth Deck Offset: -0.25

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.087	33.675	26.067	0.0000	0.0
10.0		9.078	33.679	26.072	0.0197	0.0
20.0		9.012	33.695	26.095	0.0393	0.0
30.0		8.910	33.752	26.155	0.0587	0.0
40.0		8.903	33.769	26.170	0.0776	0.0
50.0		8.931	33.783	26.176	0.0964	0.0
60.0		8.793	33.779	26.194	0.1150	0.0
70.0		8.501	33.841	26.288	0.1334	0.0
80.0		8.550	33.893	26.322	0.1509	0.0
90.0		8.384	33.969	26.406	0.1679	0.0
100.0		8.042	33.988	26.473	0.1843	0.0
110.0		7.796	34.011	26.527	0.2001	0.0
120.0		7.579	34.017	26.563	0.2154	0.0
130.0		7.576	34.017	26.564	0.2306	0.0
131.0		7.577	34.018	26.565	0.2321	0.0

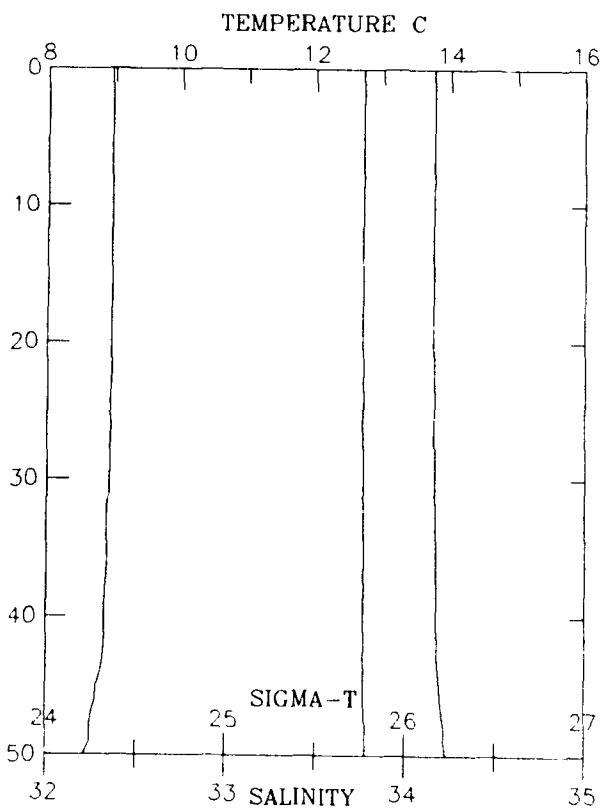
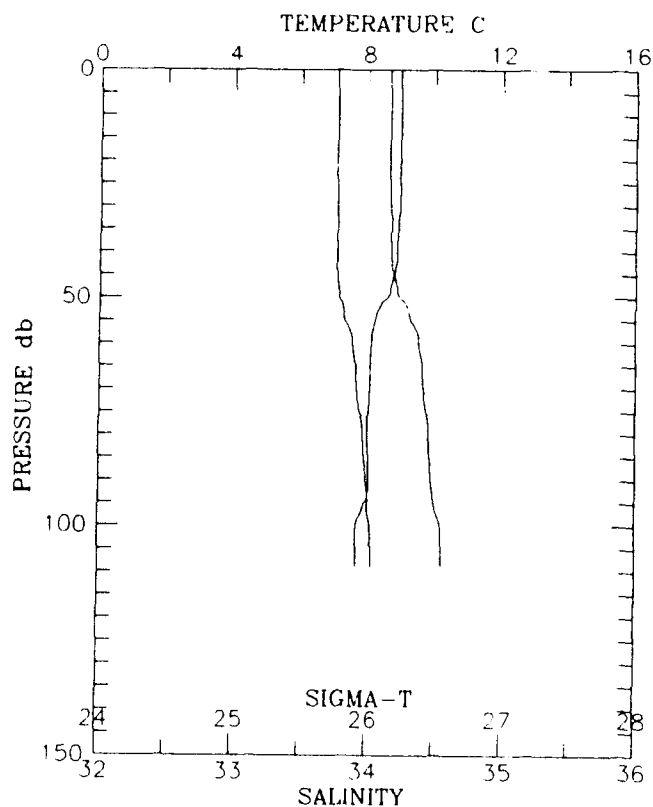




Cruise W8905 Station # 153 Depth m: 113 Time: 1989-05-12 12:37  
 Position: 38 31.06'N 123 24.92'W Depth Deck Offset: -0.25

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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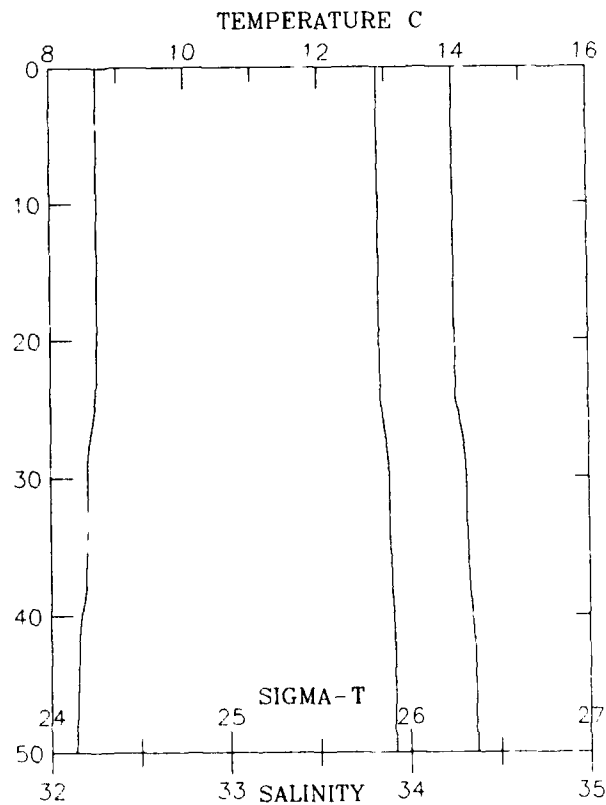
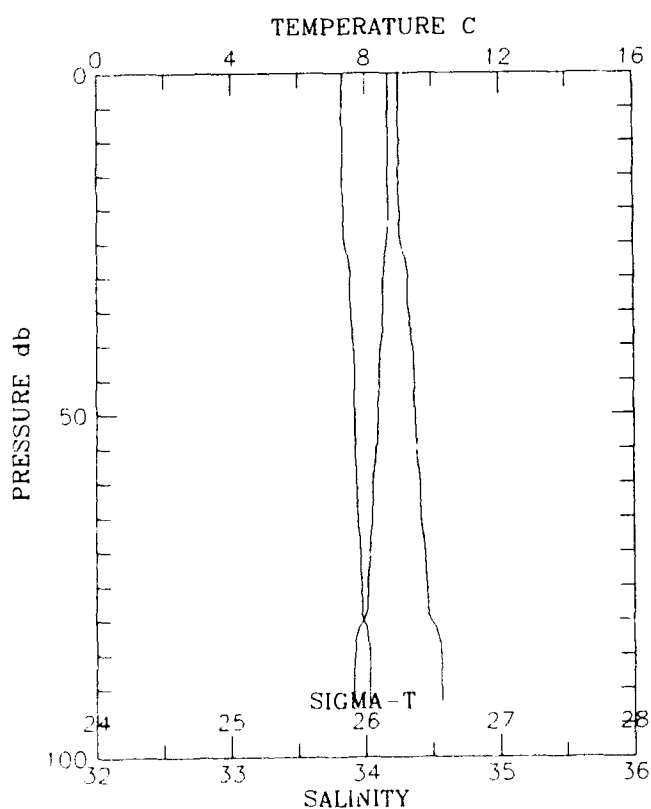
0.0	E	8.951	33.766	26.160	0.0000
10.0		8.955	33.764	26.157	0.0188
20.0		8.957	33.764	26.157	0.0377
30.0		8.926	33.766	26.163	0.0566
40.0		8.873	33.769	26.174	0.0753
50.0		8.568	33.780	26.230	0.0939
60.0		8.120	33.888	26.383	0.1112
70.0		8.063	33.917	26.414	0.1278
80.0		8.024	33.969	26.461	0.1441
90.0		8.032	33.989	26.475	0.1602
100.0		7.703	34.027	26.553	0.1759
109.0		7.683	34.030	26.559	0.1896



Cruise W8905 Station # 154 Depth m: 96 Time: 1989-05-12 13:06  
 Position: 38 32.48'N 123 23.04'W Depth Deck Offset: -0.25

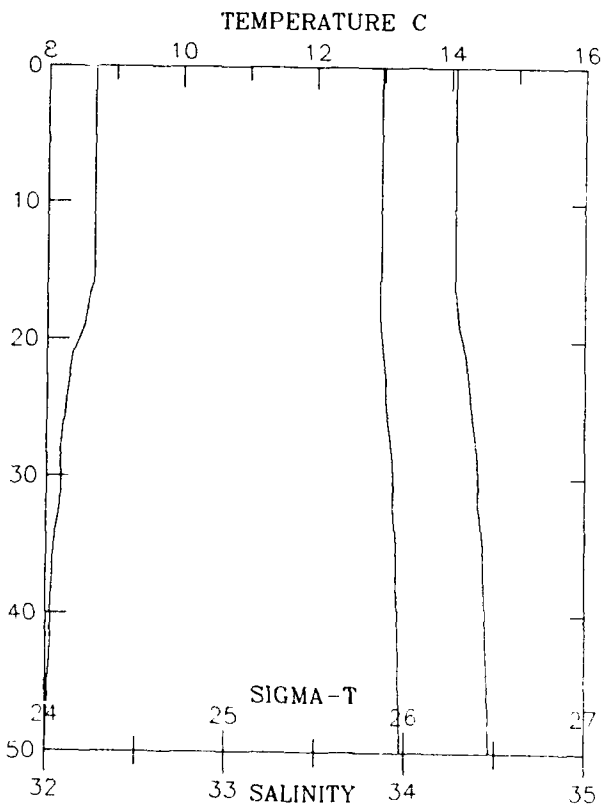
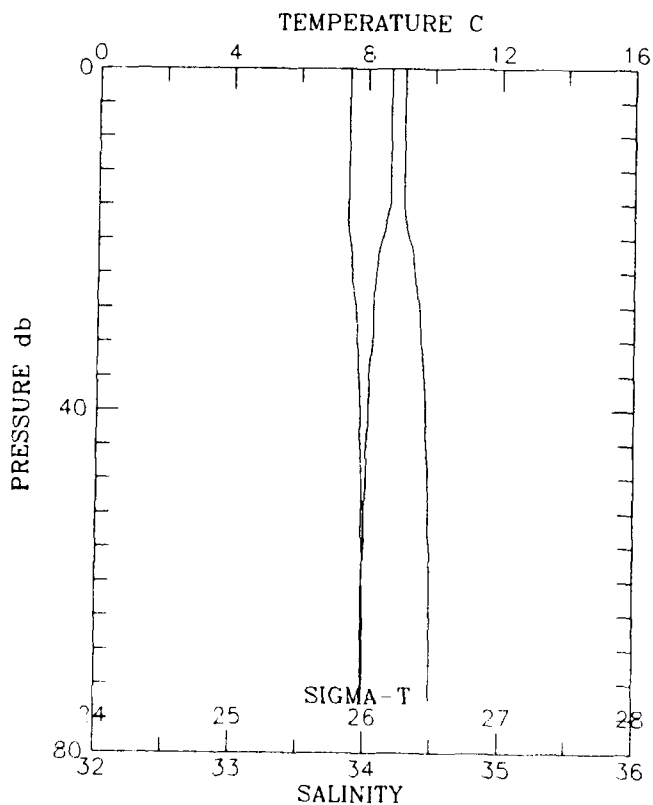
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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0.0	E	8.695	33.833	26.252	0.0000	0.0
5.0		8.697	33.831	26.250	0.0090	0.0
10.0		8.695	33.835	26.254	0.0179	0.0
15.0		8.697	33.834	26.253	0.0269	0.0
20.0		8.693	33.837	26.256	0.0359	0.0
25.0		8.656	33.850	26.271	0.0448	0.0
30.0		8.547	33.888	26.318	0.0536	0.0
35.0		8.538	33.895	26.325	0.0623	0.0
40.0		8.450	33.910	26.350	0.0709	0.0
45.0		8.397	33.918	26.365	0.0794	0.0
50.0		8.365	33.918	26.370	0.0879	0.0
55.0		8.312	33.922	26.381	0.0963	0.0
60.0		8.217	33.933	26.404	0.1047	0.0
65.0		8.192	33.940	26.413	0.1130	0.0
70.0		8.112	33.958	26.439	0.1212	0.0
75.0		8.047	33.968	26.456	0.1293	0.0
80.0		7.936	33.983	26.485	0.1373	0.0
85.0		7.658	34.026	26.559	0.1450	0.0
90.0		7.642	34.029	26.564	0.1526	0.0
92.0		7.641	34.029	26.564	0.1556	0.0



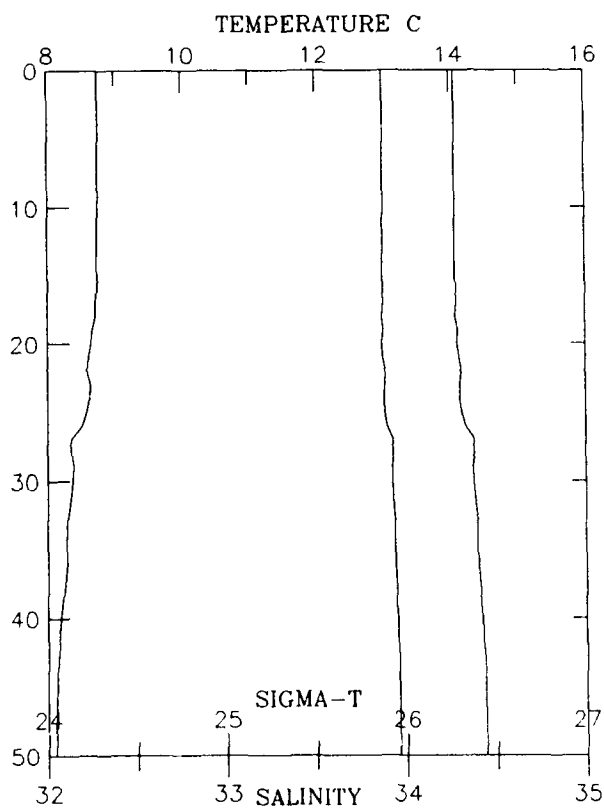
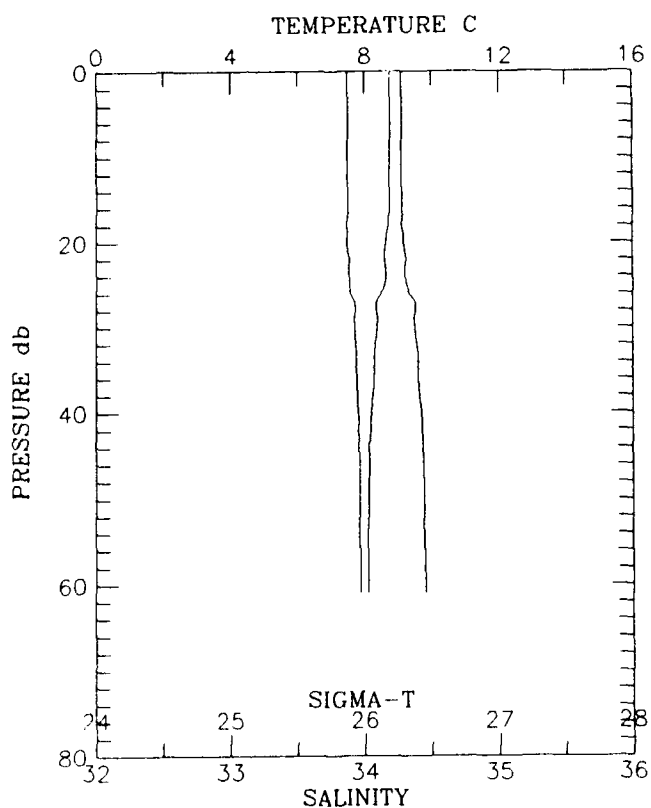
Cruise W8905 Station # 155 Depth m: 78 Time: 1989-05-12 13:32  
 Position: 38 33.56'N 123 21.55'W Depth Deck Offset: -0.25

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	8.695	33.864	26.276	0.0000
5.0		8.697	33.864	26.276	0.0089
10.0		8.699	33.864	26.276	0.0177
15.0		8.693	33.863	26.276	0.0266
20.0		8.467	33.870	26.316	0.0354
25.0		8.274	33.894	26.365	0.0439
30.0		8.208	33.929	26.402	0.0523
35.0		8.106	33.948	26.432	0.0605
40.0		8.068	33.958	26.446	0.0686
45.0		8.024	33.968	26.460	0.0767
50.0		7.995	33.973	26.468	0.0847
55.0		7.975	33.978	26.475	0.0927
60.0		7.935	33.985	26.487	0.1006
65.0		7.925	33.988	26.490	0.1085
70.0		7.926	33.987	26.489	0.1164
74.0		7.932	33.986	26.488	0.1227



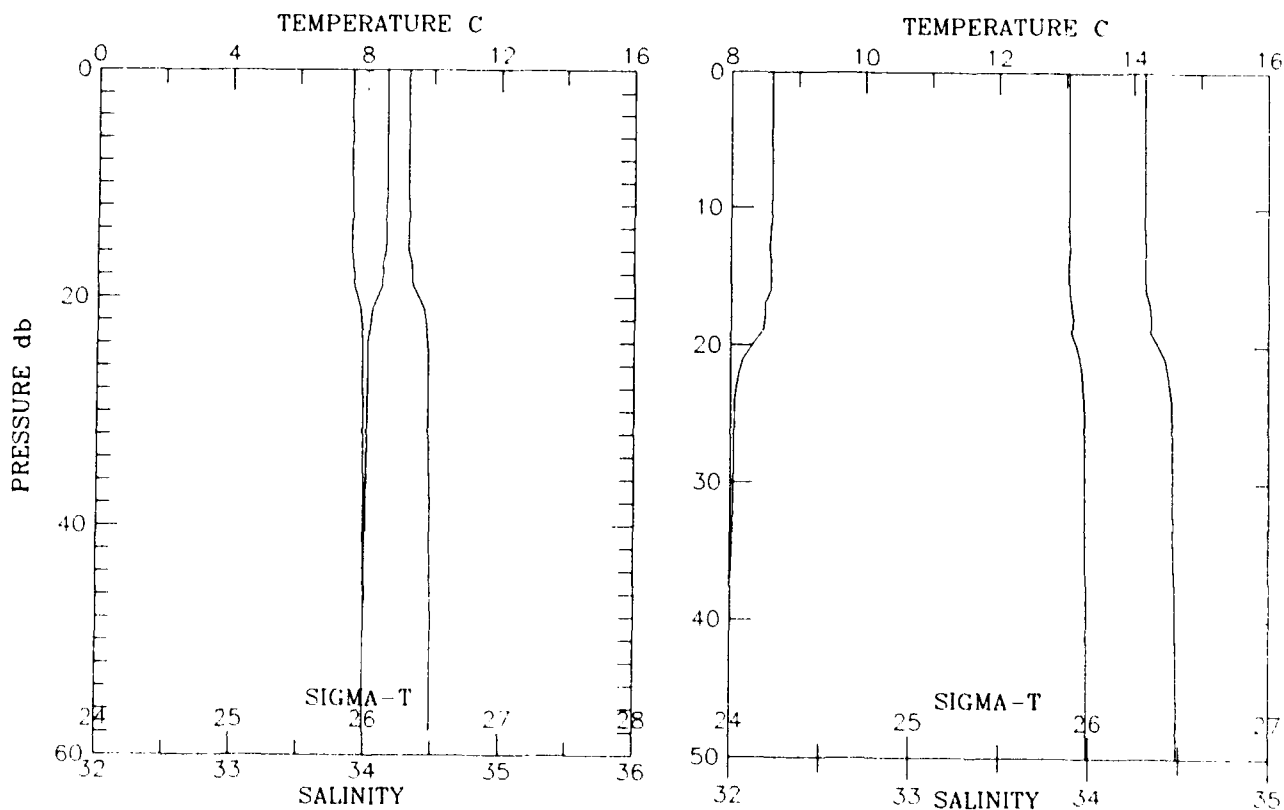
Cruise W8905 Station # 156 Depth m: 65 Time: 1989-05-12 13:52  
 Position: 38 33.98'N 123 20.87'W Depth Deck Offset: -0.25

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	8.749	33.875	26.277	0.0000
5.0		8.748	33.874	26.276	0.0089
10.0		8.744	33.874	26.277	0.0177
15.0		8.741	33.872	26.276	0.0266
20.0		8.647	33.869	26.288	0.0354
25.0		8.579	33.883	26.309	0.0442
30.0		8.366	33.924	26.374	0.0527
35.0		8.280	33.937	26.397	0.0610
40.0		8.188	33.952	26.423	0.0693
45.0		8.127	33.958	26.437	0.0774
50.0		8.113	33.960	26.440	0.0856
55.0		8.101	33.962	26.444	0.0937
60.0		8.085	33.964	26.448	0.1018
61.0		8.086	33.964	26.448	0.1034



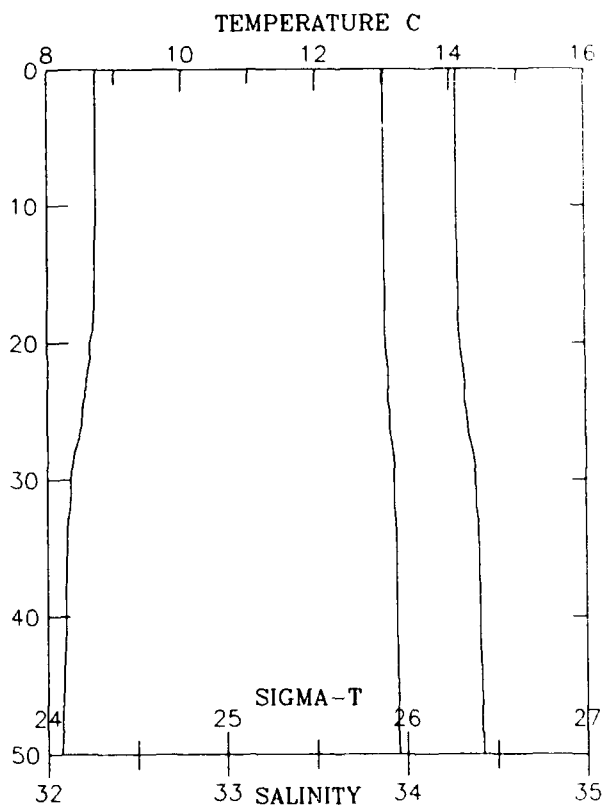
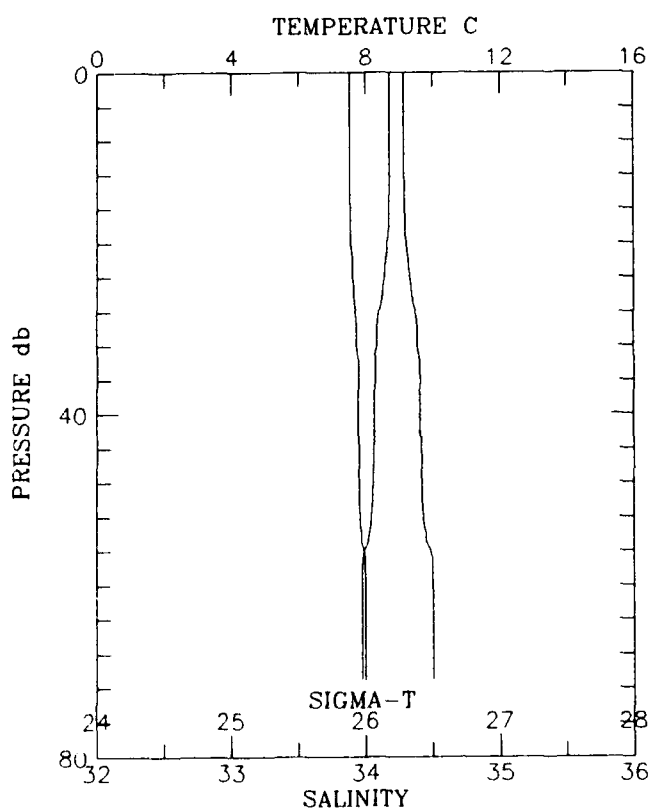
Cruise W8905 Station # 157 Depth m: 62 Time: 1989-05-12 15:02  
 Position: 38 28.10'N 123 14.29'W Depth Deck Offset: -0.25

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	8.603	33.892	26.313	0.0000
5.0		8.598	33.891	26.313	0.0087
10.0		8.600	33.891	26.312	0.0174
15.0		8.593	33.892	26.314	0.0261
20.0		8.321	33.933	26.388	0.0346
25.0		8.052	33.976	26.462	0.0427
30.0		8.039	33.978	26.466	0.0507
35.0		8.019	33.981	26.471	0.0587
40.0		7.993	33.985	26.478	0.0666
45.0		7.972	33.988	26.483	0.0746
50.0		7.956	33.990	26.487	0.0825
55.0		7.952	33.991	26.489	0.0903
58.0		7.953	33.991	26.489	0.0951



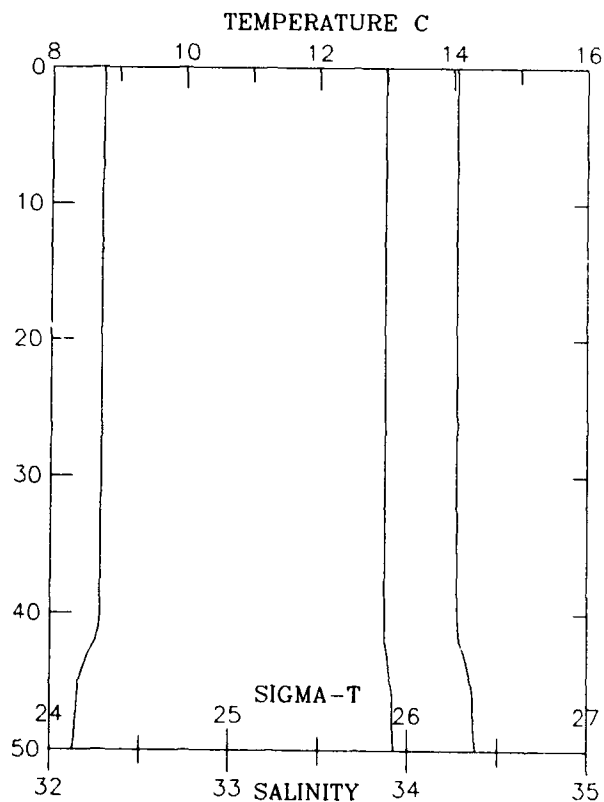
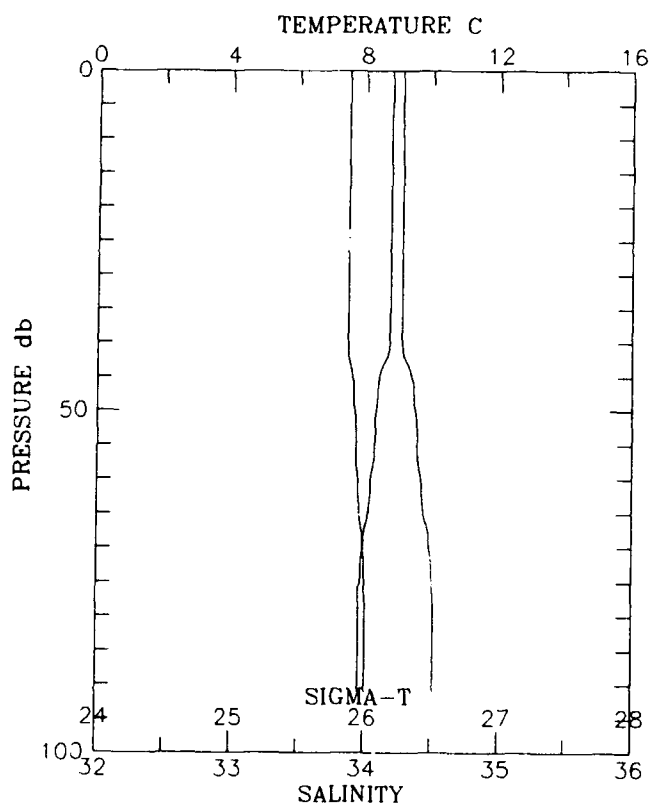
Cruise W8905 Station # 158 Depth m: 77 Time: 1989-05-12 15:22  
 Position: 38 27.53'N 123 15.20'W Depth Deck Offset: -0.25

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	8.723	33.883	26.287	0.0000	0.0
5.0		8.724	33.883	26.287	0.0088	0.0
10.0		8.723	33.883	26.287	0.0176	0.0
15.0		8.701	33.884	26.291	0.0264	0.0
20.0		8.640	33.890	26.305	0.0352	0.0
25.0		8.522	33.910	26.339	0.0439	0.0
30.0		8.347	33.934	26.385	0.0523	0.0
35.0		8.281	33.944	26.403	0.0607	0.0
40.0		8.264	33.946	26.407	0.0689	0.0
45.0		8.237	33.950	26.414	0.0772	0.0
50.0		8.203	33.955	26.423	0.0854	0.0
55.0		8.064	33.970	26.456	0.0936	0.0
60.0		7.903	33.998	26.501	0.1014	0.0
65.0		7.892	33.999	26.504	0.1093	0.0
70.0		7.888	34.000	26.505	0.1171	0.0
71.0		7.887	34.000	26.505	0.1187	0.0



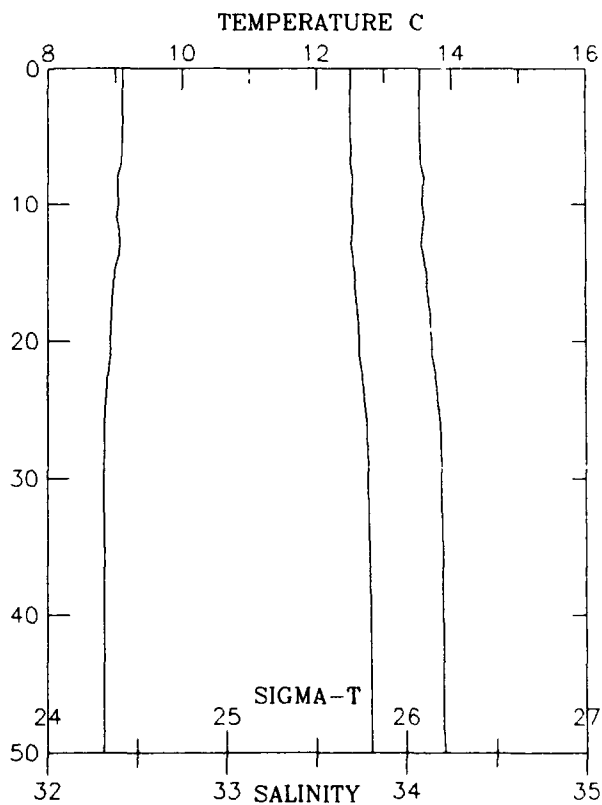
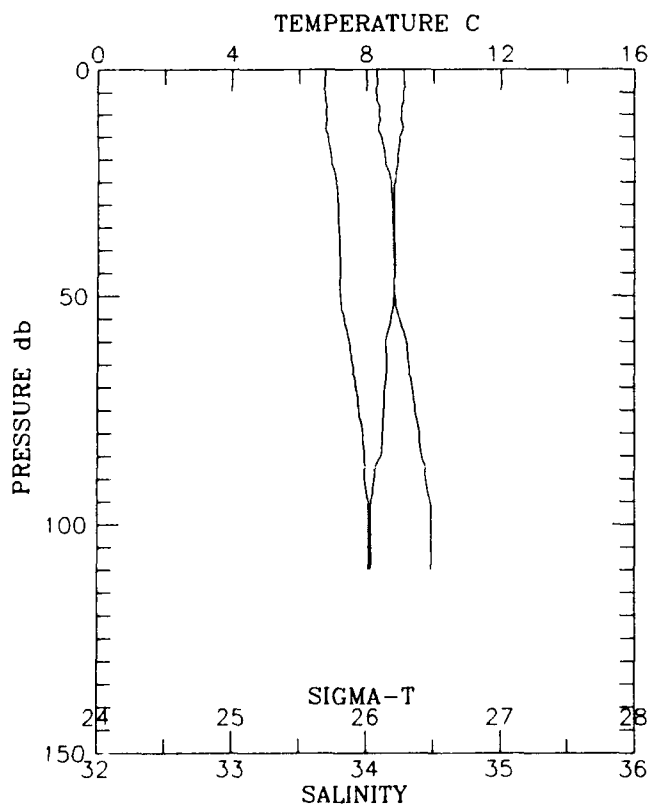
Cruise W8905 Station # 159 Depth m: 95 Time: 1989-05-12 16:05  
 Position: 38 26.21'N 123 16.76'W Depth Deck Offset: -0.25

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	8.768	33.872	26.271	0.0000	0.0
5.0		8.769	33.871	26.270	0.0089	0.0
10.0		8.755	33.871	26.273	0.0178	0.0
15.0		8.755	33.872	26.273	0.0266	0.0
20.0		8.751	33.871	26.273	0.0355	0.0
25.0		8.746	33.871	26.274	0.0444	0.0
30.0		8.747	33.871	26.274	0.0533	0.0
35.0		8.743	33.871	26.274	0.0622	0.0
40.0		8.738	33.871	26.275	0.0711	0.0
45.0		8.424	33.906	26.351	0.0798	0.0
50.0		8.337	33.924	26.378	0.0883	0.0
55.0		8.289	33.934	26.394	0.0967	0.0
60.0		8.172	33.950	26.424	0.1050	0.0
65.0		8.110	33.960	26.441	0.1132	0.0
70.0		7.961	33.986	26.483	0.1212	0.0
75.0		7.874	34.001	26.508	0.1290	0.0
80.0		7.840	34.007	26.518	0.1368	0.0
85.0		7.837	34.008	26.519	0.1446	0.0
90.0		7.838	34.008	26.519	0.1524	0.0
91.0		7.837	34.008	26.519	0.1539	0.0



Cruise W8905 Station # 160 Depth m: 116 Time: 1989-05-12 16:44  
 Position: 38 23.29'N 123 20.68'W Depth Deck Offset: -0.25

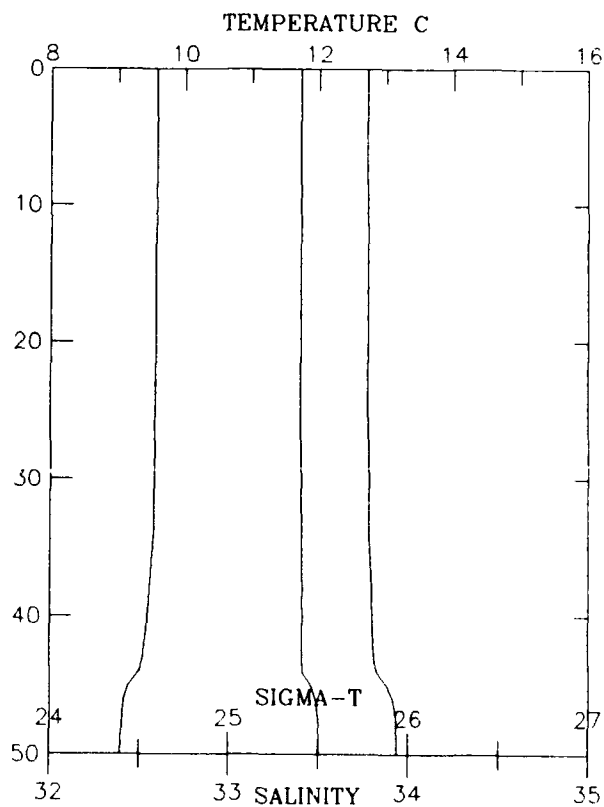
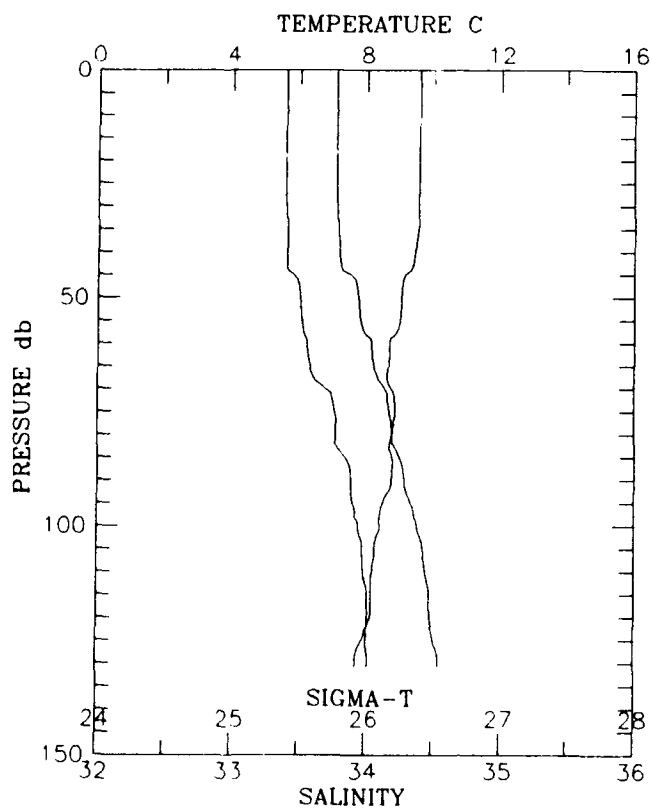
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.112	33.691	26.075	0.0000
10.0		9.054	33.698	26.090	0.0196
20.0		8.927	33.737	26.141	0.0389
30.0		8.832	33.789	26.196	0.0576
40.0		8.842	33.801	26.204	0.0761
50.0		8.829	33.808	26.212	0.0945
60.0		8.587	33.871	26.299	0.1126
70.0		8.564	33.923	26.343	0.1300
80.0		8.484	33.974	26.395	0.1470
90.0		8.253	33.991	26.444	0.1635
100.0		8.126	34.020	26.486	0.1796
110.0		8.128	34.020	26.485	0.1955





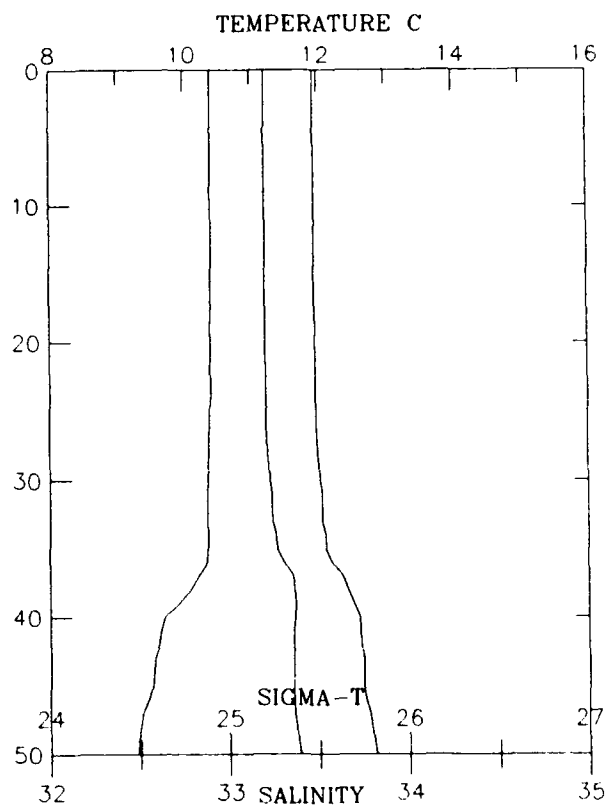
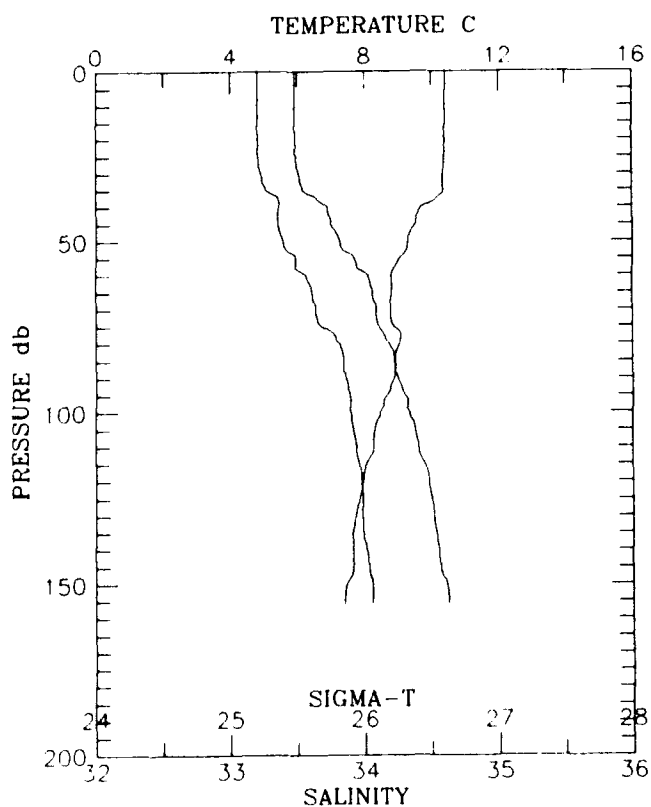
Cruise W8905 Station # 161 Depth m: 137 Time: 1989-05-12 17:18  
 Position: 38 21.50'N 123 23.43'W Depth Deck Offset: -0.25

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.577	33.398	25.772	0.0000
10.0		9.582	33.400	25.773	0.0225
20.0		9.569	33.399	25.774	0.0450
30.0		9.548	33.402	25.780	0.0675
40.0		9.453	33.408	25.800	0.0899
50.0		9.053	33.505	25.939	0.1116
60.0		8.703	33.558	26.036	0.1323
70.0		8.744	33.701	26.141	0.1521
80.0		8.778	33.778	26.196	0.1710
90.0		8.760	33.887	26.285	0.1891
100.0		8.430	33.947	26.382	0.2065
110.0		8.205	33.984	26.446	0.2230
120.0		8.151	34.015	26.478	0.2391
130.0		7.728	34.023	26.547	0.2548
131.0		7.725	34.021	26.546	0.2563



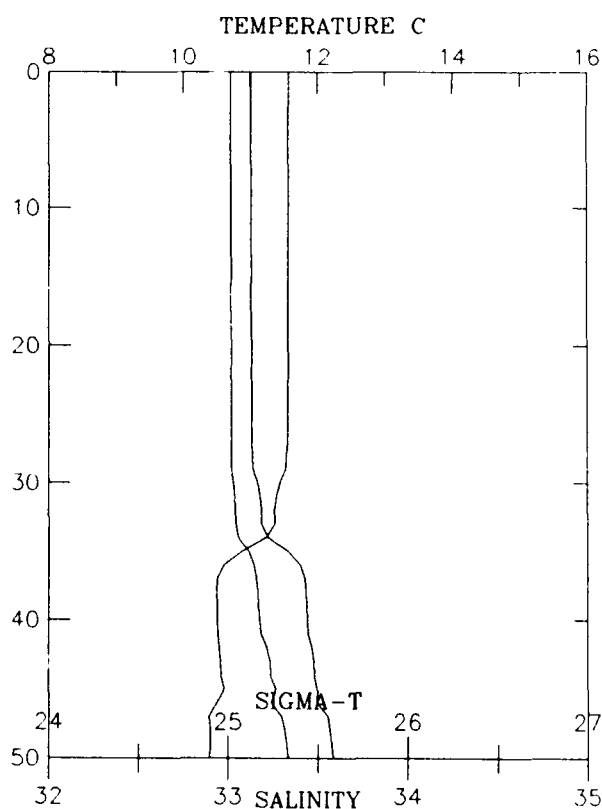
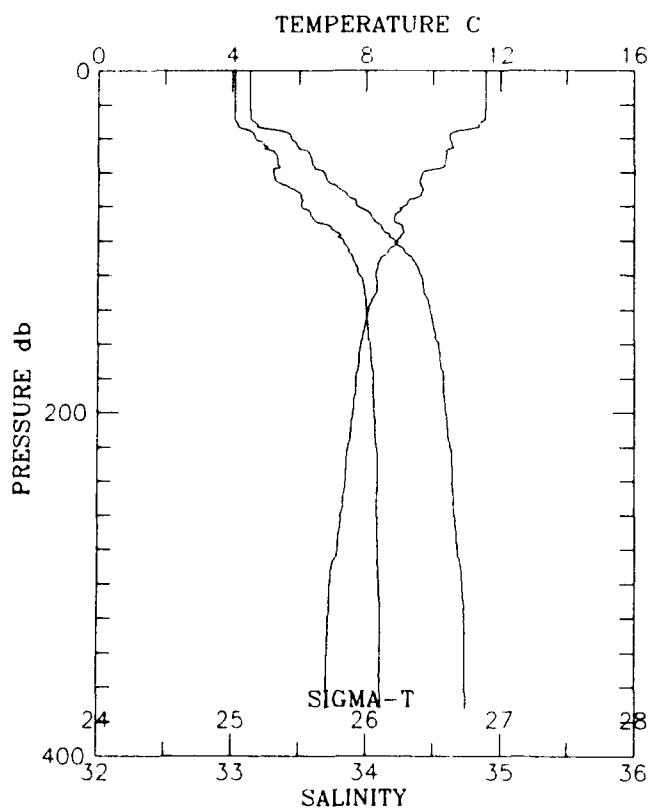
Cruise W8905 Station # 162 Depth m: 163 Time: 1989-05-12 17:48  
 Position: 38 19.92'N 123 25.23'W Depth Deck Offset: -0.25

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.414	33.204	25.480	0.0000	0.0
10.0		10.411	33.204	25.481	0.0253	0.0
20.0		10.398	33.206	25.484	0.0506	0.0
30.0		10.353	33.226	25.508	0.0758	0.0
40.0		9.708	33.366	25.725	0.1002	0.0
50.0		9.293	33.391	25.813	0.1229	0.0
60.0		8.800	33.566	26.027	0.1442	0.0
70.0		8.770	33.635	26.085	0.1641	0.0
80.0		9.043	33.817	26.185	0.1834	0.0
90.0		8.863	33.861	26.248	0.2018	0.0
100.0		8.472	33.897	26.337	0.2195	0.0
110.0		8.266	33.940	26.402	0.2365	0.0
120.0		7.931	33.976	26.480	0.2529	0.0
130.0		7.718	33.980	26.514	0.2687	0.0
140.0		7.655	34.020	26.555	0.2842	0.0
150.0		7.460	34.057	26.612	0.2994	0.0
156.0		7.389	34.060	26.625	0.3082	0.0



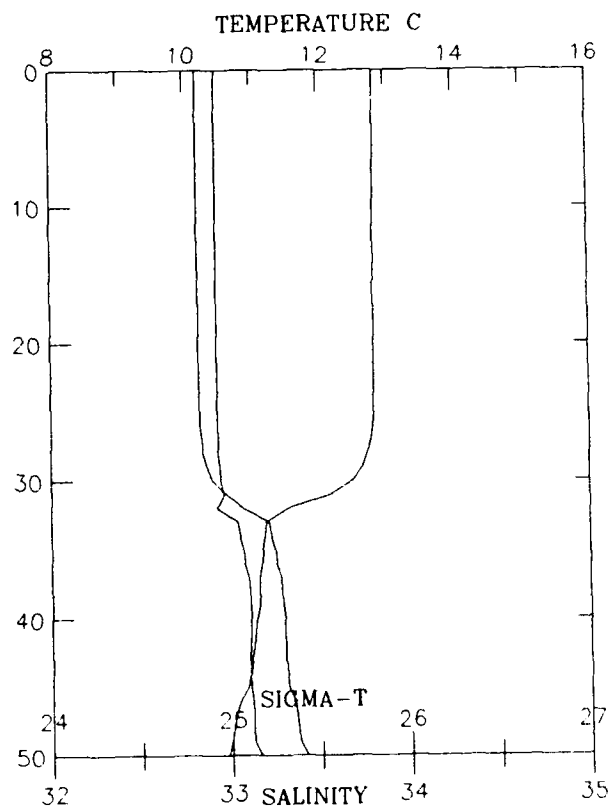
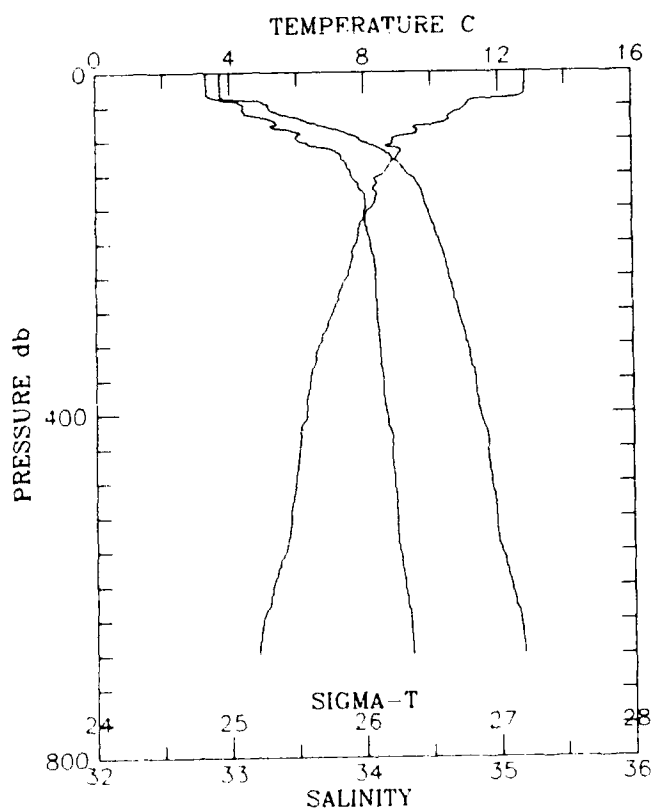
Cruise W8905 Station # 163 Depth m: 380 Time: 1989-05-12 18:47  
 Position: 38 15.75'N 123 30.85'W Depth Deck Offset: -0.25

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	11.571	33.018	25.130	0.0000	0.0
10.0		11.566	33.018	25.131	0.0286	0.0
20.0		11.558	33.019	25.133	0.0572	0.0
30.0		11.435	33.031	25.165	0.0858	0.0
40.0		10.510	33.176	25.442	0.1128	0.0
50.0		10.389	33.332	25.584	0.1379	0.0
60.0		9.656	33.305	25.686	0.1620	0.0
80.0		9.125	33.512	25.933	0.2067	0.0
100.0		8.920	33.830	26.215	0.2461	0.0
150.0		7.964	34.013	26.504	0.3297	0.0
200.0		7.616	34.061	26.593	0.4063	0.0
250.0		7.324	34.082	26.651	0.4800	0.0
300.0		6.924	34.095	26.717	0.5517	0.0
373.0		6.817	34.105	26.739	0.6532	0.0



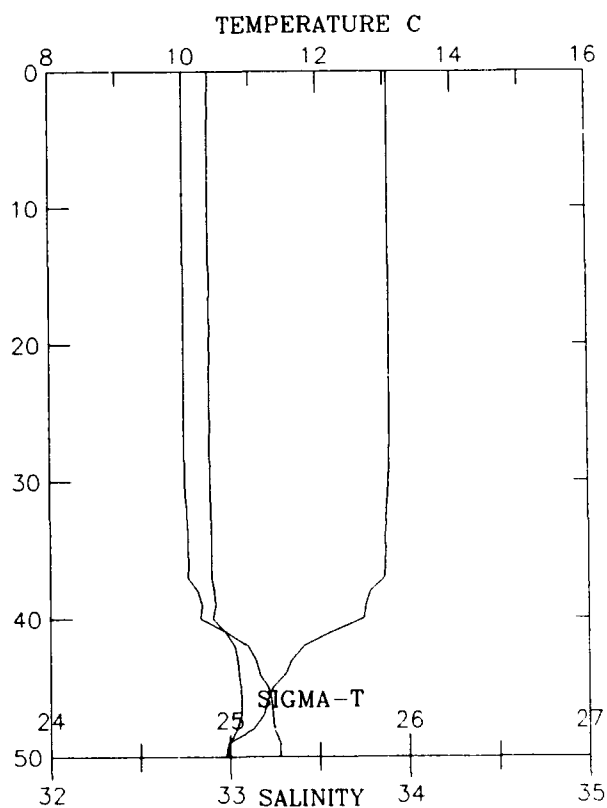
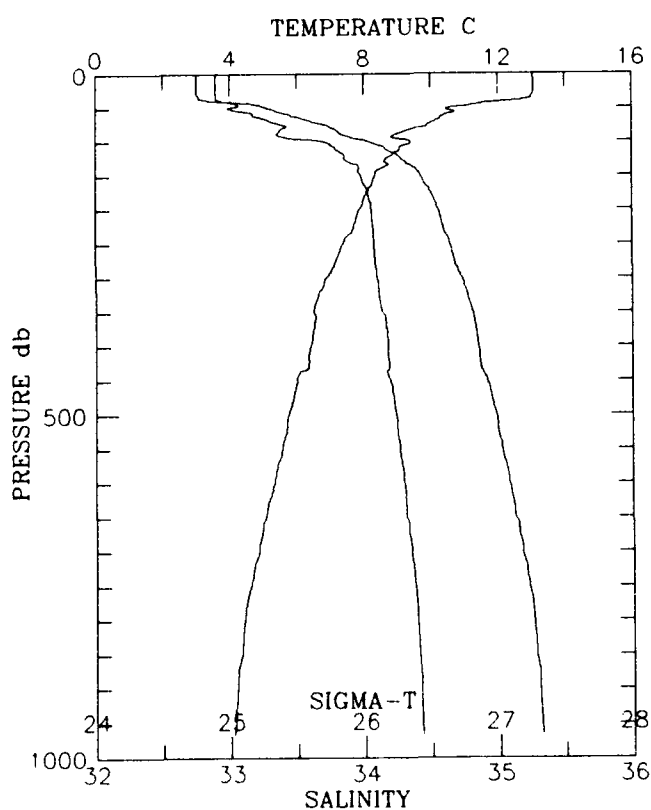
Cruise W8905 Station # 164 Depth m: 693 Time: 1989-05-12 20:03  
 Position: 38 13.80'N 123 33.70'W Depth Deck Offset: -0.25

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	12.833	32.932	24.825	0.0000	0.0
10.0		12.819	32.930	24.826	0.0315	0.0
20.0		12.816	32.931	24.828	0.0630	0.0
30.0		12.495	32.948	24.902	0.0944	0.0
40.0		11.037	33.107	25.296	0.1225	0.0
50.0		10.600	33.159	25.413	0.1493	0.0
60.0		10.268	33.347	25.617	0.1743	0.0
80.0		8.870	33.512	25.973	0.2185	0.0
100.0		8.957	33.831	26.210	0.2573	0.0
150.0		8.324	34.007	26.446	0.3434	0.0
200.0		7.760	34.044	26.558	0.4227	0.0
250.0		7.346	34.087	26.652	0.4974	0.0
300.0		6.848	34.104	26.734	0.5686	0.0
400.0		6.248	34.162	26.859	0.7008	0.0
500.0		5.842	34.228	26.962	0.8232	0.0
600.0		5.250	34.290	27.083	0.9380	0.0
681.0		4.811	34.345	27.178	1.0211	0.0



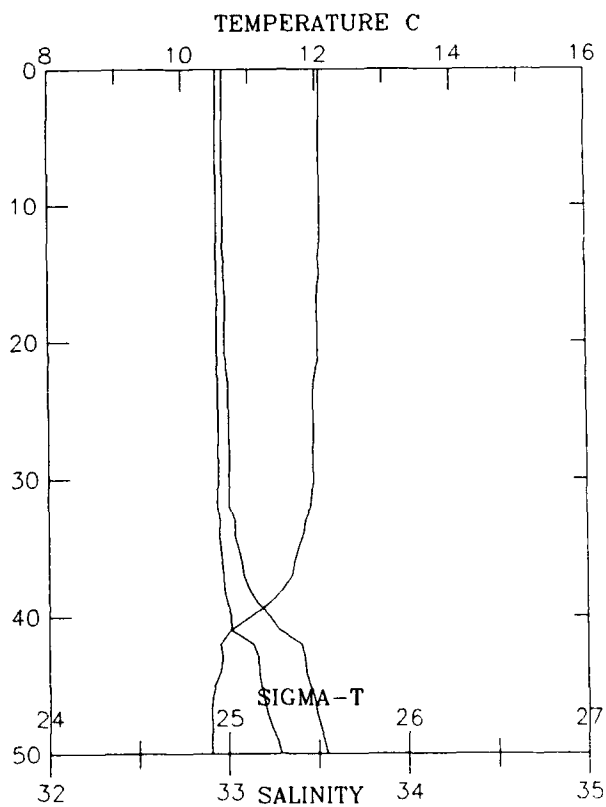
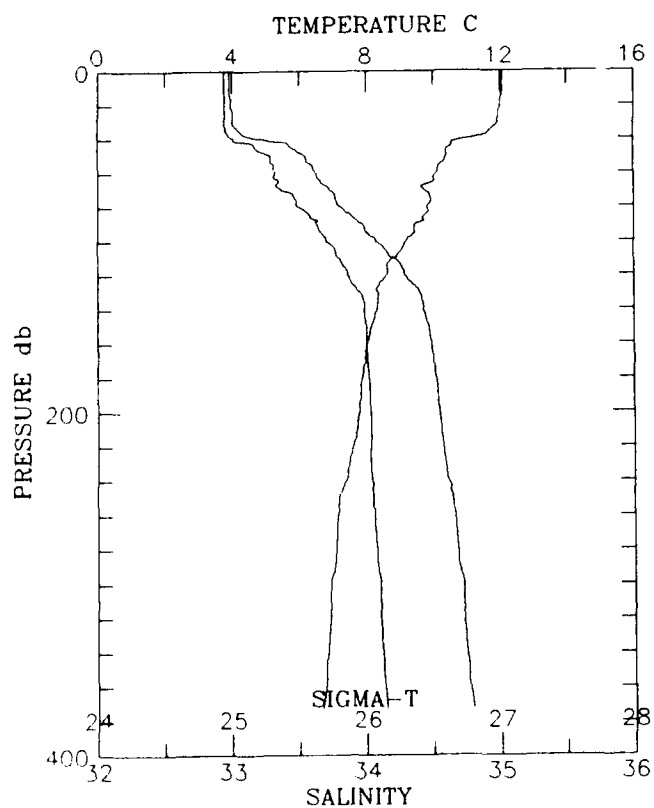
Cruise W8905 Station # 165 Depth m: 973 Time: 1989-05-12 21:23  
 Position: 38 8.20'N 123 34.10'W Depth Deck Offset: -0.20

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 13.060	32.896	24.752	0.0000	0.0
10.0	13.061	32.895	24.751	0.0322	0.0
20.0	13.061	32.895	24.751	0.0644	0.0
30.0	13.041	32.896	24.756	0.0967	0.0
40.0	12.665	32.909	24.839	0.1287	0.0
50.0	10.604	32.988	25.279	0.1570	0.0
60.0	10.447	33.171	25.449	0.1836	0.0
80.0	9.656	33.400	25.760	0.2318	0.0
100.0	9.371	33.693	26.035	0.2754	0.0
150.0	8.318	33.972	26.419	0.3656	0.0
200.0	7.847	34.052	26.552	0.4456	0.0
250.0	7.368	34.071	26.636	0.5212	0.0
300.0	6.847	34.093	26.726	0.5931	0.0
400.0	6.408	34.175	26.848	0.7259	0.0
500.0	5.729	34.236	26.983	0.8493	0.0
600.0	5.314	34.294	27.079	0.9622	0.0
700.0	4.830	34.342	27.173	1.0661	0.0
800.0	4.392	34.388	27.258	1.1618	0.0
900.0	4.198	34.414	27.300	1.2525	0.0
967.0	4.097	34.426	27.320	1.3118	0.0



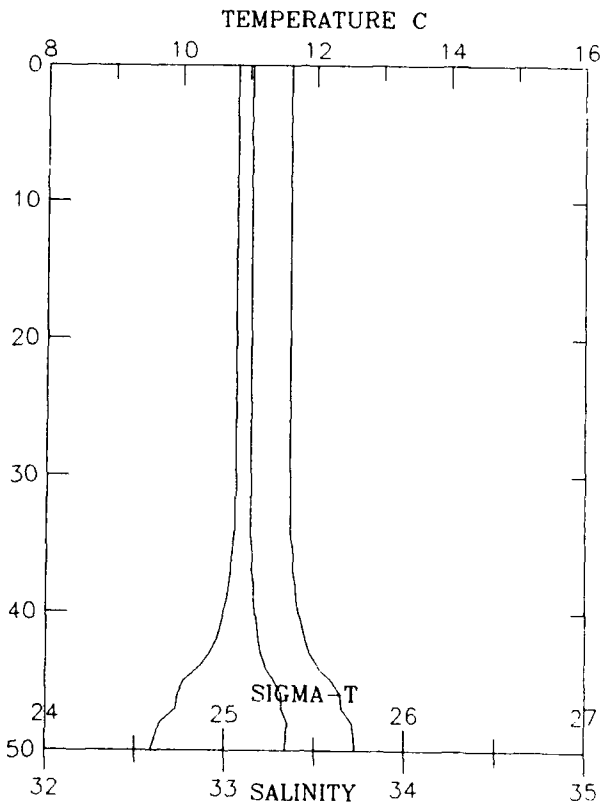
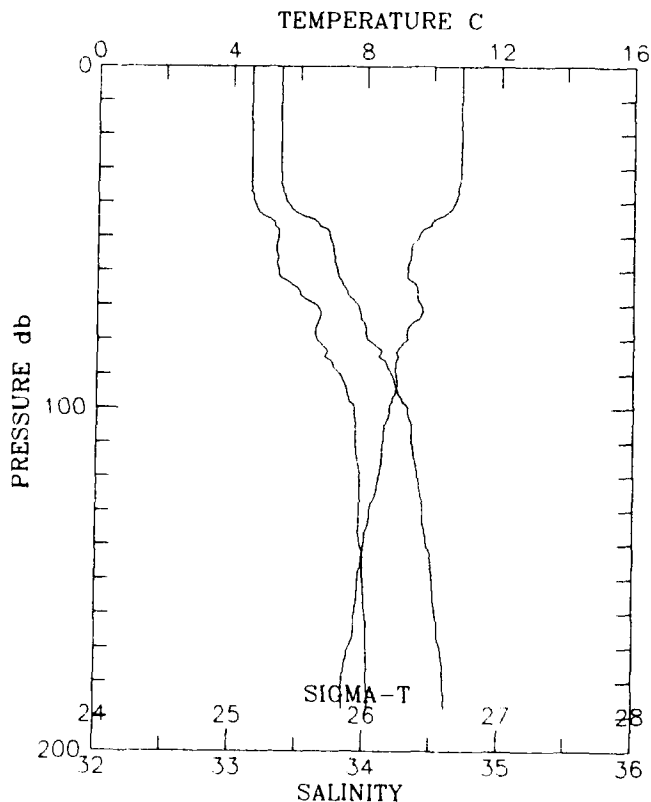
Cruise W8905 Station # 166 Depth m: 379 Time: 1989-05-12 23:03  
 Position: 38 9.20'N 123 28.30'W Depth Deck Offset: -0.20

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	12.064	32.945	24.982	0.0000	0.0
10.0		12.060	32.944	24.982	0.0300	0.0
20.0		12.017	32.945	24.990	0.0600	0.0
30.0		11.942	32.947	25.006	0.0899	0.0
40.0		10.990	33.013	25.231	0.1191	0.0
50.0		10.413	33.290	25.547	0.1449	0.0
60.0		10.108	33.320	25.623	0.1692	0.0
80.0		9.794	33.493	25.810	0.2155	0.0
100.0		9.206	33.703	26.070	0.2575	0.0
150.0		8.148	34.001	26.468	0.3450	0.0
200.0		7.775	34.028	26.544	0.4240	0.0
250.0		7.187	34.051	26.646	0.4998	0.0
300.0		6.931	34.100	26.720	0.5716	0.0
373.0		6.669	34.144	26.790	0.6721	0.0



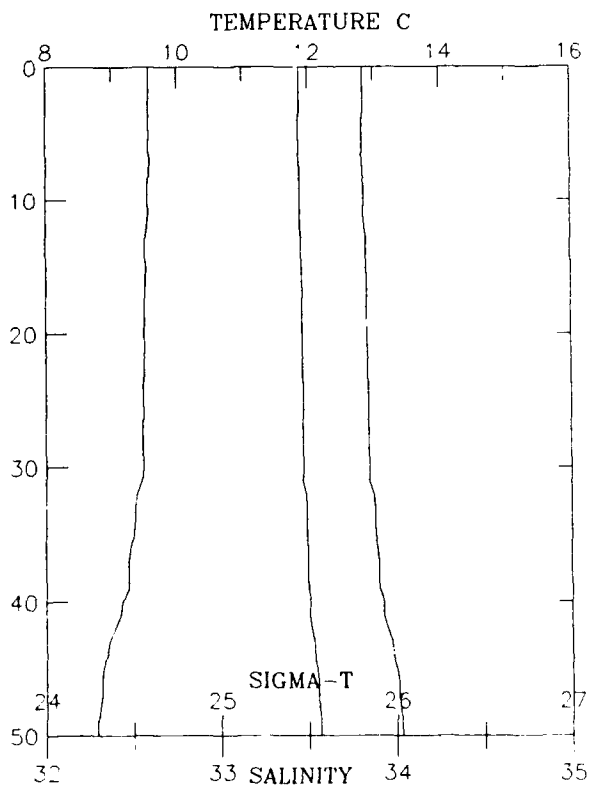
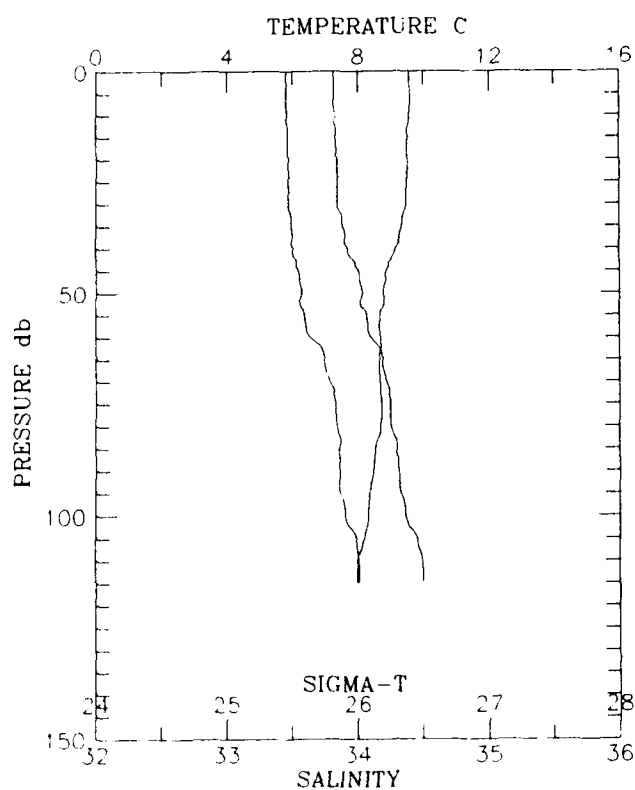
Cruise W8905 Station # 167 Depth m: 192 Time: 1989-05-13 00:28  
 Position: 38 10.39'N 123 22.02'W Depth Deck Offset: -0.20

PRESSURE Interp (d-bars)		TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	10.827	33.139	25.358	0.0000	0.0
10.0		10.824	33.139	25.358	0.0264	0.0
20.0		10.821	33.139	25.359	0.0529	0.0
30.0		10.815	33.140	25.360	0.0794	0.0
40.0		10.646	33.165	25.410	0.1057	0.0
50.0		9.576	33.342	25.728	0.1302	0.0
60.0		9.254	33.350	25.786	0.1529	0.0
70.0		9.667	33.637	25.944	0.1748	0.0
80.0		9.247	33.631	26.007	0.1955	0.0
90.0		8.932	33.813	26.199	0.2148	0.0
100.0		8.718	33.917	26.314	0.2330	0.0
110.0		8.540	33.929	26.351	0.2503	0.0
120.0		8.423	33.961	26.394	0.2673	0.0
130.0		8.157	33.961	26.435	0.2840	0.0
140.0		8.001	33.969	26.464	0.3003	0.0
150.0		7.827	33.995	26.510	0.3162	0.0
160.0		7.750	34.011	26.534	0.3319	0.0
170.0		7.545	34.020	26.571	0.3473	0.0
180.0		7.390	34.029	26.600	0.3623	0.0
188.0		7.382	34.031	26.603	0.3743	0.0



Cruise W8905 Station # 168 Depth m: 118 Time: 1989-05-13 01:47  
 Position: 38 11.59'N 123 15.94'W Depth Deck Offset: -0.20

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.573	33.454	25.816	0.0000	0.0
10.0		9.556	33.457	25.822	0.0221	0.0
20.0		9.499	33.470	25.840	0.0441	0.0
30.0		9.479	33.471	25.845	0.0659	0.0
40.0		9.154	33.510	25.927	0.0874	0.0
50.0		8.781	33.567	26.030	0.1080	0.0
60.0		8.686	33.641	26.103	0.1278	0.0
70.0		8.678	33.784	26.217	0.1466	0.0
80.0		8.706	33.842	26.258	0.1648	0.0
90.0		8.454	33.858	26.309	0.1825	0.0
100.0		8.311	33.901	26.365	0.1998	0.0
110.0		8.001	34.006	26.493	0.2162	0.0
115.0		7.985	34.008	26.497	0.2241	0.0

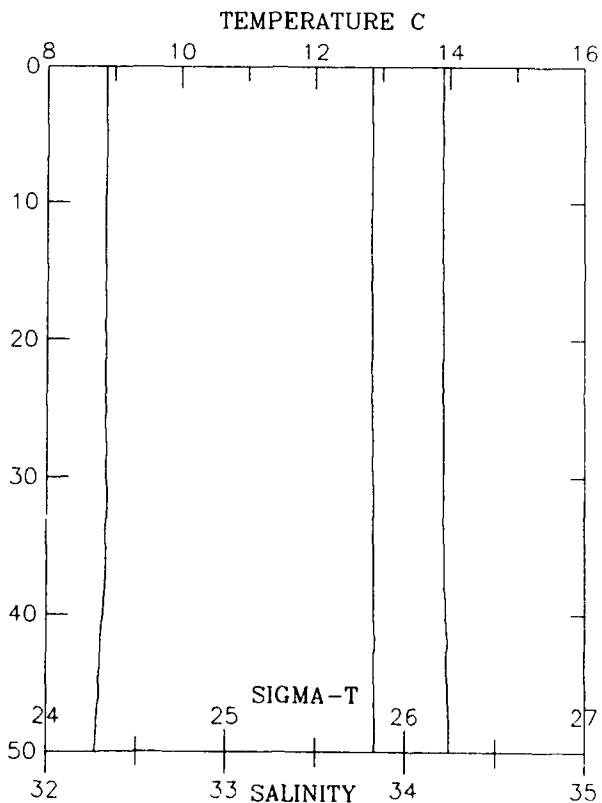
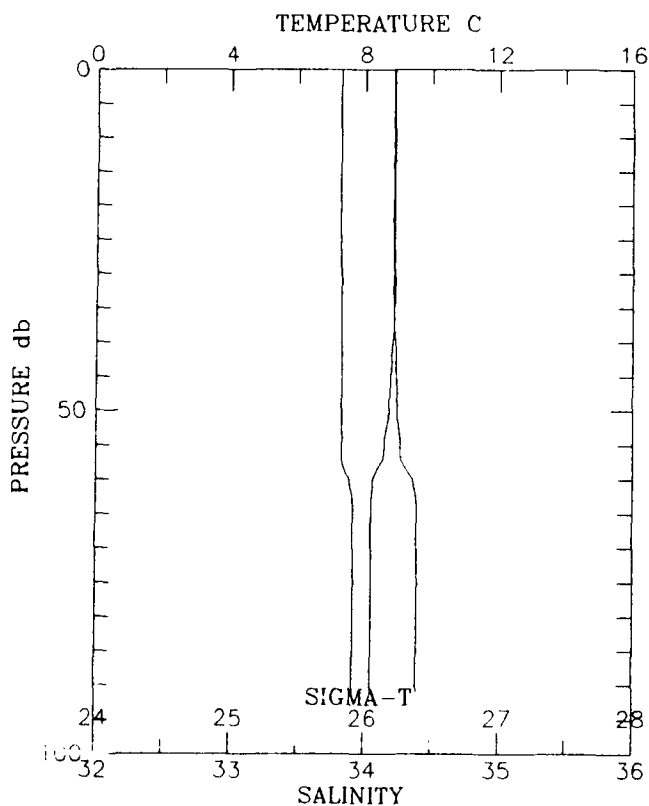




Cruise W8905 Station # 169 Depth m: 95 Time: 1989-05-13 02:58  
 Position: 38 12.75'N 123 9.70'W Depth Deck Offset: -0.20

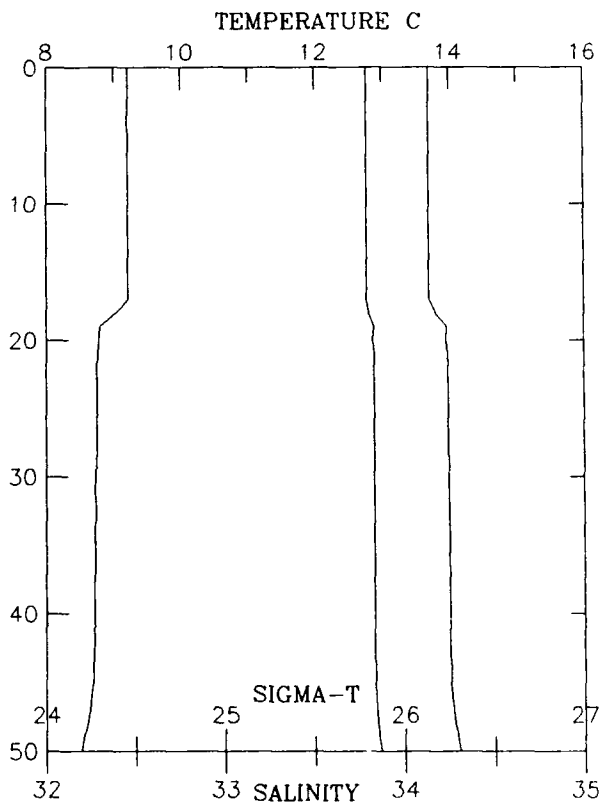
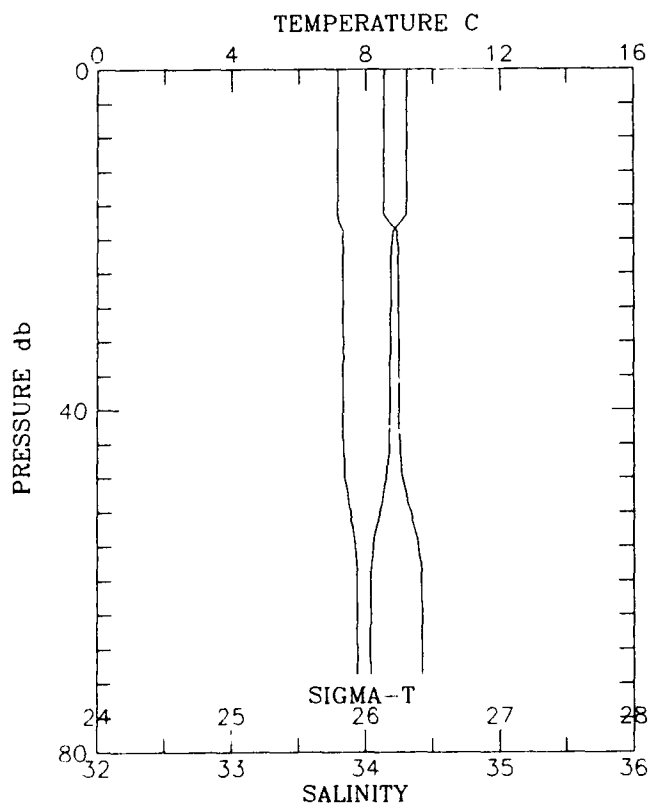
PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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0.0	E	8.878	33.819	26.213	0.0000	0.0
5.0		8.878	33.817	26.211	0.0092	0.0
10.0		8.873	33.816	26.211	0.0183	0.0
15.0		8.870	33.815	26.211	0.0275	0.0
20.0		8.877	33.818	26.212	0.0367	0.0
25.0		8.874	33.818	26.213	0.0459	0.0
30.0		8.881	33.820	26.213	0.0551	0.0
35.0		8.878	33.825	26.218	0.0642	0.0
40.0		8.835	33.826	26.225	0.0734	0.0
45.0		8.780	33.828	26.235	0.0825	0.0
50.0		8.727	33.827	26.243	0.0916	0.0
55.0		8.605	33.832	26.265	0.1006	0.0
60.0		8.253	33.887	26.362	0.1094	0.0
65.0		8.210	33.916	26.391	0.1178	0.0
70.0		8.207	33.918	26.393	0.1262	0.0
75.0		8.206	33.920	26.395	0.1345	0.0
80.0		8.210	33.918	26.393	0.1429	0.0
85.0		8.209	33.918	26.393	0.1513	0.0
90.0		8.212	33.918	26.393	0.1596	0.0
91.0		8.212	33.918	26.393	0.1613	0.0



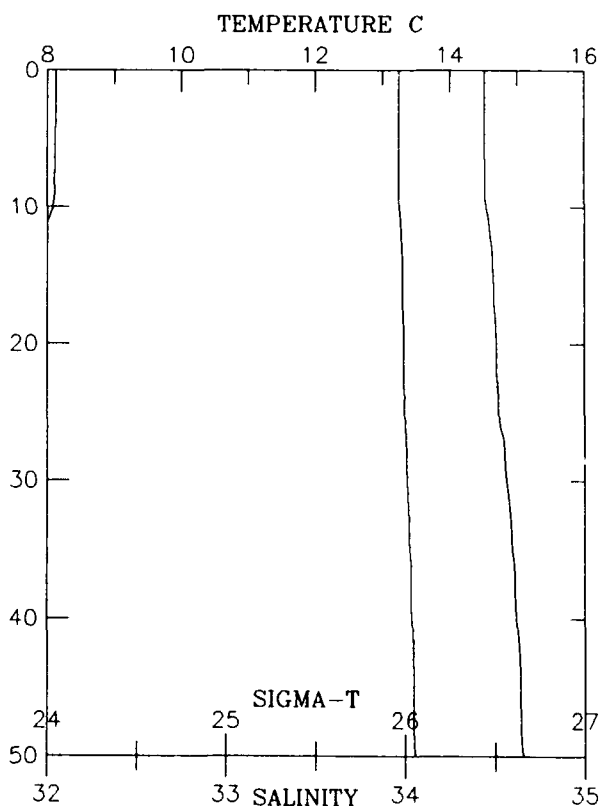
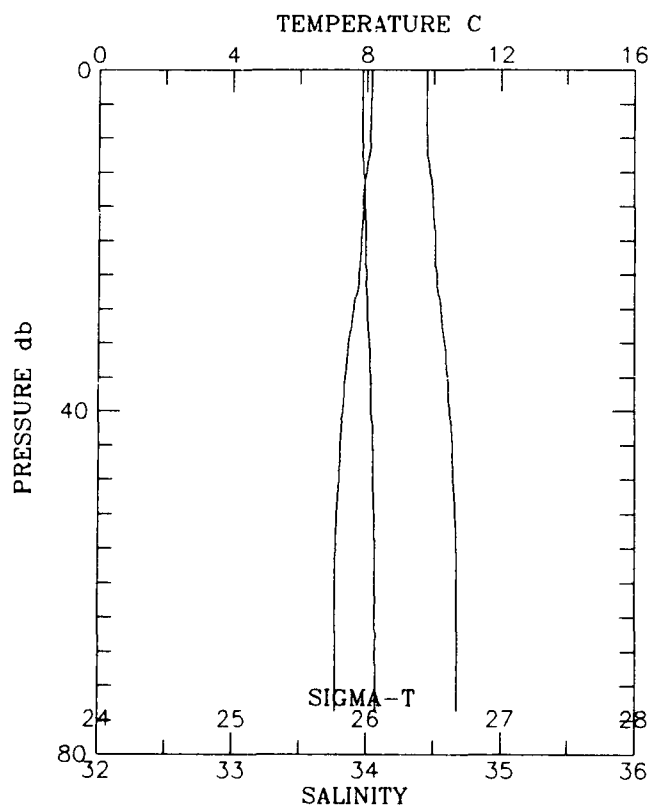
Cruise W8905 Station # 170 Depth m: 76 Time: 1989-05-13 04:18  
 Position: 38 13.92'N 123 4.26'W Depth Deck Offset: -0.20

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.214	33.792	26.138	0.0000
5.0		9.214	33.790	26.137	0.0095
10.0		9.218	33.790	26.136	0.0190
15.0		9.219	33.790	26.136	0.0286
20.0		8.784	33.825	26.232	0.0379
25.0		8.752	33.832	26.243	0.0470
30.0		8.733	33.832	26.246	0.0560
35.0		8.721	33.832	26.248	0.0650
40.0		8.711	33.832	26.249	0.0741
45.0		8.688	33.835	26.255	0.0831
50.0		8.522	33.866	26.305	0.0920
55.0		8.247	33.915	26.385	0.1006
60.0		8.150	33.936	26.416	0.1089
65.0		8.144	33.938	26.419	0.1171
70.0		8.143	33.938	26.419	0.1253
71.0		8.143	33.938	26.419	0.1270



Cruise W8905 Station # 256 Depth m: 78 Time: 1989-05-14 12:05  
 Position: 38 39.99'N 123 27.55'W Depth Deck Offset: -0.20

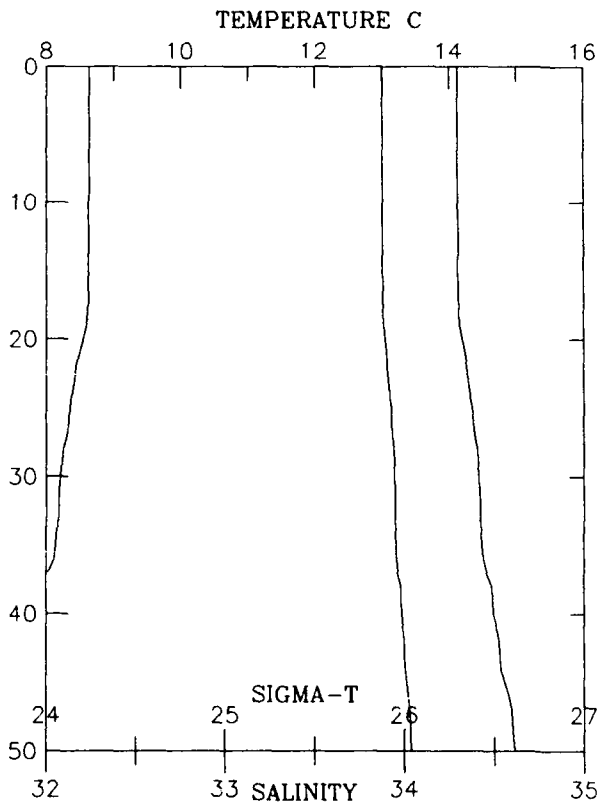
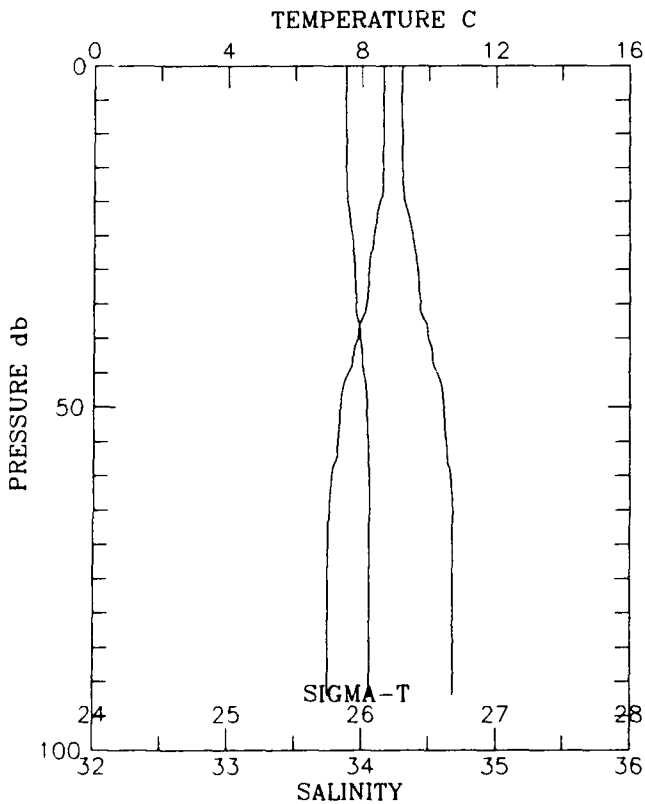
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	8.123	33.967	26.445	0.0000
5.0		8.117	33.966	26.445	0.0081
10.0		8.080	33.967	26.451	0.0161
15.0		7.907	33.985	26.491	0.0240
20.0		7.824	33.992	26.508	0.0319
25.0		7.759	33.996	26.521	0.0396
30.0		7.548	34.010	26.563	0.0472
35.0		7.391	34.024	26.596	0.0546
40.0		7.298	34.035	26.618	0.0619
45.0		7.201	34.046	26.640	0.0692
50.0		7.138	34.052	26.653	0.0763
55.0		7.079	34.061	26.669	0.0834
60.0		7.064	34.064	26.673	0.0904
65.0		7.061	34.064	26.674	0.0974
70.0		7.060	34.065	26.675	0.1045
75.0		7.060	34.065	26.674	0.1115



Cruise W8905 Station # 257 Depth m: 95 Time: 1989-05-14 12:34  
 Position: 38 38.55'N 123 29.38'W Depth Deck Offset: -0.20

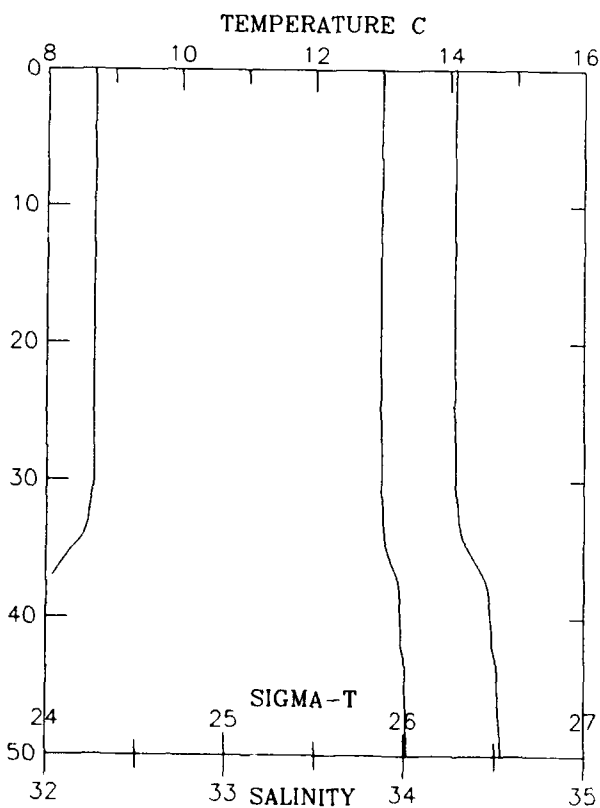
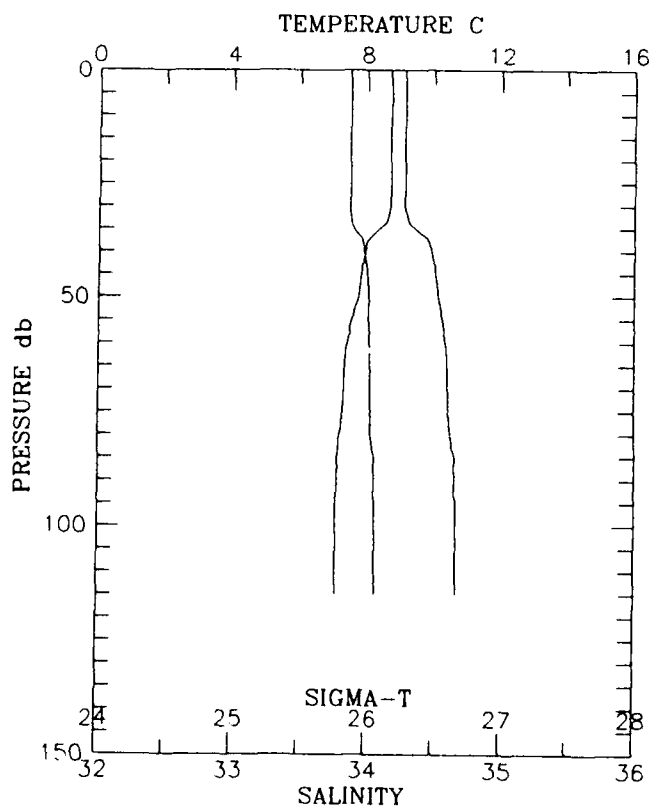
PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
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0.0	E	8.640	33.880	26.298	0.0000	0.0
5.0		8.637	33.878	26.297	0.0088	0.0
10.0		8.629	33.880	26.299	0.0175	0.0
15.0		8.630	33.880	26.299	0.0263	0.0
20.0		8.546	33.893	26.322	0.0350	0.0
25.0		8.349	33.926	26.378	0.0435	0.0
30.0		8.210	33.946	26.415	0.0518	0.0
35.0		8.137	33.955	26.433	0.0600	0.0
40.0		7.882	33.984	26.494	0.0680	0.0
45.0		7.589	34.014	26.560	0.0757	0.0
50.0		7.355	34.039	26.613	0.0831	0.0
55.0		7.270	34.047	26.631	0.0904	0.0
60.0		7.099	34.058	26.664	0.0976	0.0
65.0		7.018	34.059	26.676	0.1046	0.0
70.0		6.997	34.059	26.678	0.1116	0.0
75.0		6.993	34.059	26.679	0.1186	0.0
80.0		6.988	34.059	26.680	0.1256	0.0
85.0		6.985	34.059	26.680	0.1326	0.0
90.0		6.986	34.060	26.681	0.1396	0.0
92.0		6.987	34.059	26.680	0.1424	0.0



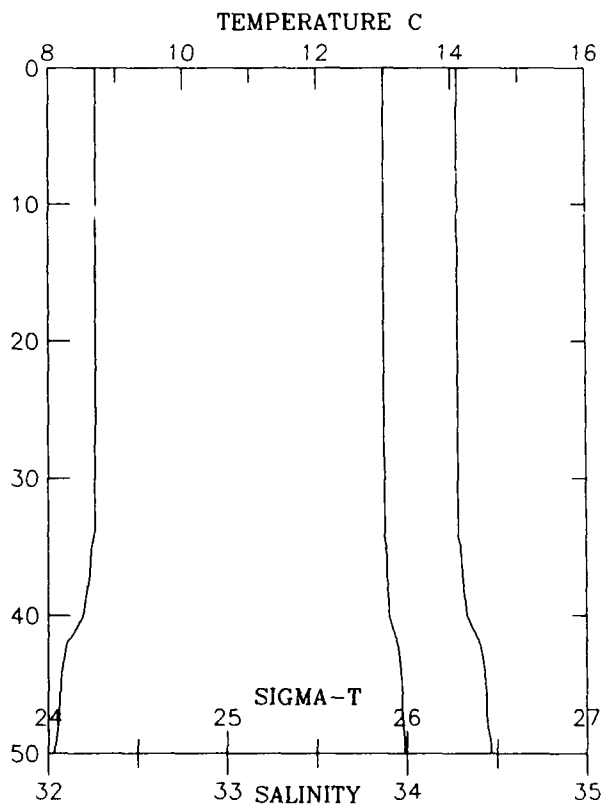
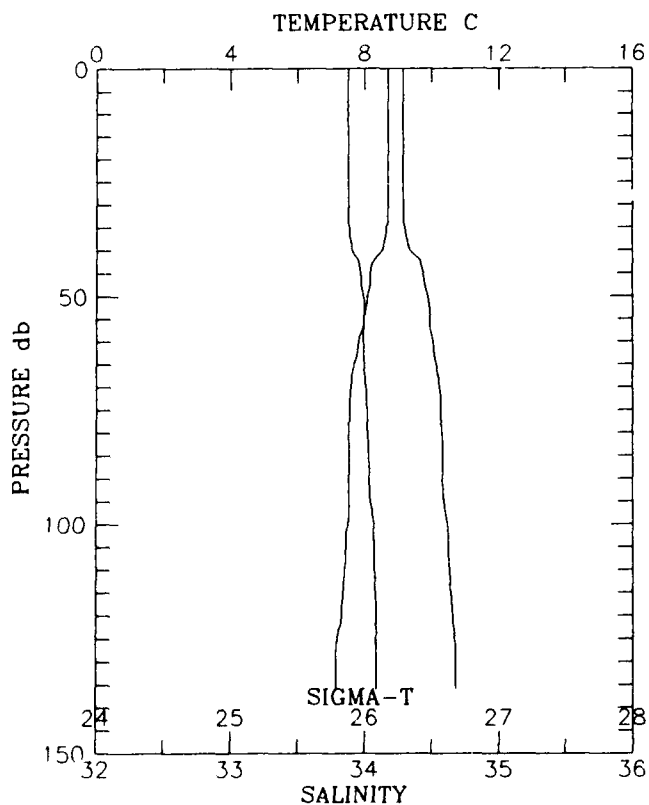
Cruise W8905 Station # 258 Depth m: 119 Time: 1989-05-14 13:08  
 Position: 38 36.64'N 123 31.80'W Depth Deck Offset: -0.20

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	8.706	33.872	26.281	0.0000	0.0
10.0		8.707	33.870	26.279	0.0177	0.0
20.0		8.704	33.870	26.280	0.0354	0.0
30.0		8.700	33.871	26.281	0.0531	0.0
40.0		7.938	33.977	26.480	0.0700	0.0
50.0		7.755	34.012	26.534	0.0855	0.0
60.0		7.425	34.019	26.587	0.1006	0.0
70.0		7.333	34.026	26.606	0.1154	0.0
80.0		7.205	34.034	26.630	0.1300	0.0
90.0		7.121	34.055	26.658	0.1443	0.0
100.0		7.093	34.063	26.668	0.1585	0.0
110.0		7.096	34.069	26.673	0.1726	0.0
115.0		7.099	34.069	26.672	0.1797	0.0



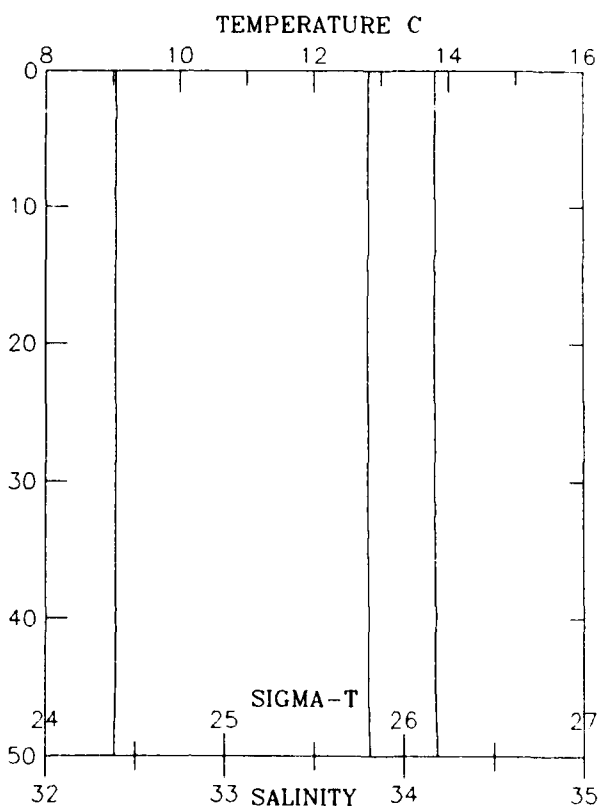
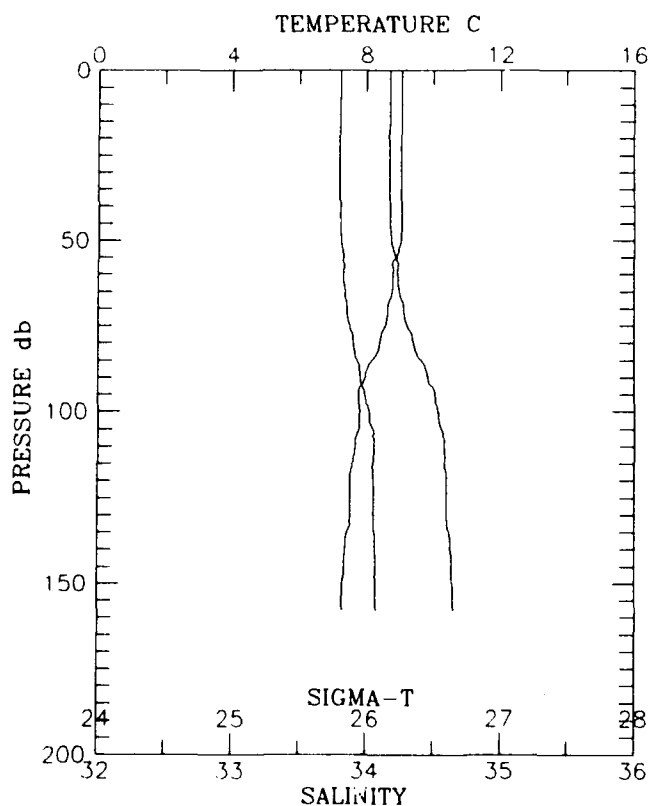
Cruise W8905 Station # 259 Depth m: 140 Time: 1989-05-14 13:50  
 Position: 38 35.29'N 123 33.69'W Depth Deck Offset: -0.20

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	8.704	33.877	26.285	0.0000
10.0		8.703	33.876	26.285	0.0176
20.0		8.701	33.876	26.285	0.0353
30.0		8.694	33.877	26.287	0.0530
40.0		8.516	33.903	26.335	0.0705
50.0		8.084	33.990	26.469	0.0869
60.0		7.812	33.991	26.509	0.1027
70.0		7.587	34.008	26.555	0.1181
80.0		7.520	34.025	26.578	0.1332
90.0		7.537	34.034	26.583	0.1482
100.0		7.482	34.066	26.616	0.1630
110.0		7.402	34.073	26.633	0.1776
120.0		7.306	34.086	26.657	0.1920
130.0		7.150	34.088	26.680	0.2062
136.0		7.149	34.087	26.679	0.2147



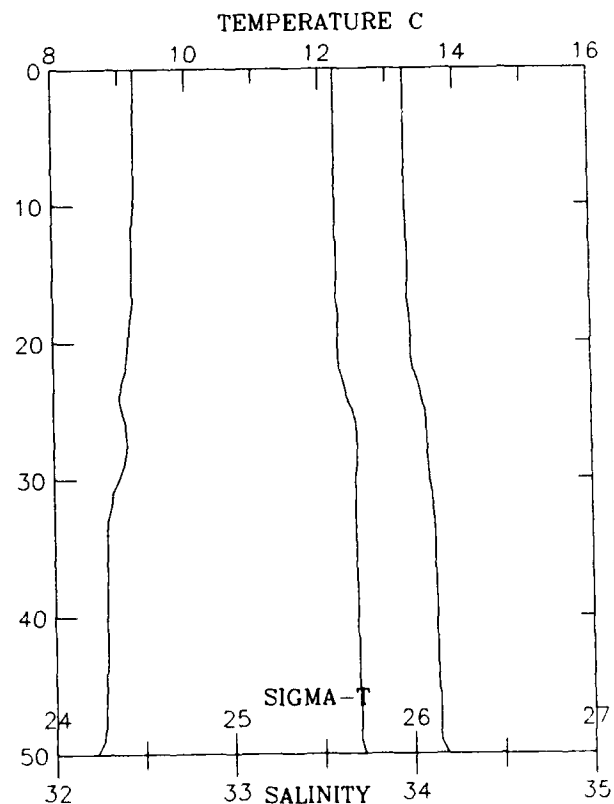
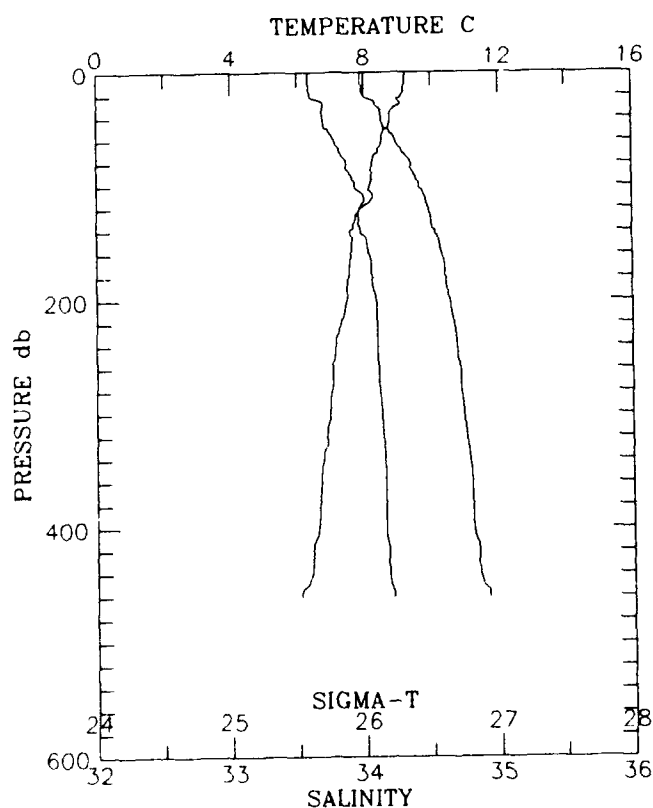
Cruise W8905 Station # 260 Depth m: 162 Time: 1989-05-14 14:34  
 Position: 38 33.10'N 123 36.72'W Depth Deck Offset: -0.20

PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.048	33.805	26.175	0.0000	0.0
10.0		9.043	33.802	26.173	0.0187	0.0
20.0		9.047	33.799	26.170	0.0374	0.0
30.0		9.045	33.800	26.171	0.0562	0.0
40.0		9.035	33.804	26.176	0.0750	0.0
50.0		9.020	33.810	26.183	0.0937	0.0
60.0		8.798	33.830	26.234	0.1121	0.0
70.0		8.639	33.858	26.281	0.1302	0.0
80.0		8.410	33.904	26.352	0.1477	0.0
90.0		7.971	33.955	26.458	0.1644	0.0
100.0		7.796	34.019	26.534	0.1801	0.0
110.0		7.657	34.056	26.583	0.1953	0.0
120.0		7.526	34.055	26.601	0.2102	0.0
130.0		7.532	34.057	26.602	0.2251	0.0
140.0		7.386	34.068	26.631	0.2398	0.0
150.0		7.296	34.071	26.646	0.2540	0.0
158.0		7.285	34.072	26.649	0.2659	0.0



Cruise W8905 Station # 261 Depth m: 465 Time: 1989-05-14 15:29  
 Position: 38 31.05'N 123 40.14'W Depth Deck Offset: -0.20

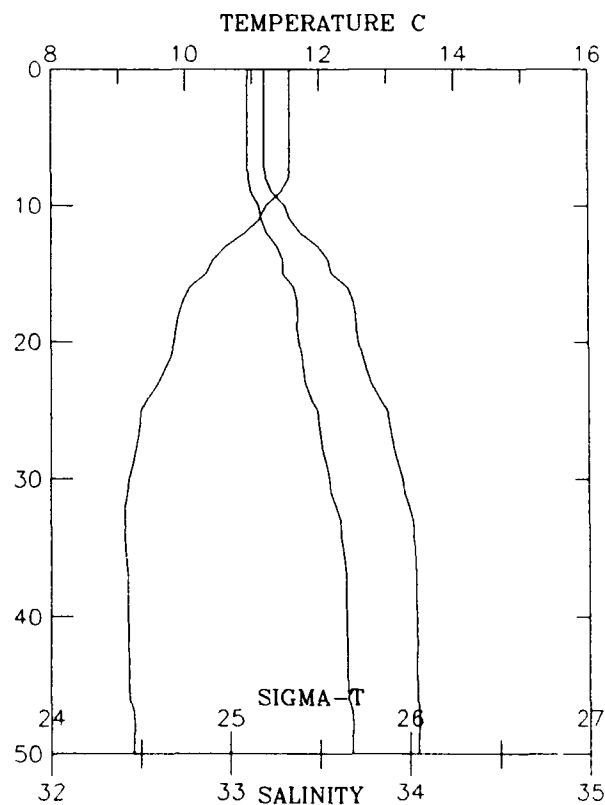
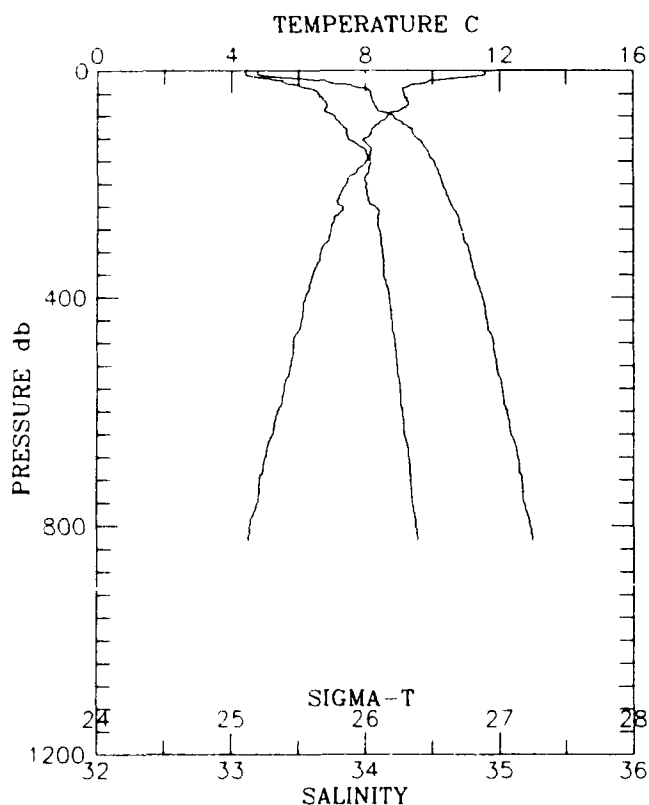
PRESSURE (d-bars)	Interp	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E	9.232	33.584	25.972	0.0000	0.0
10.0		9.218	33.583	25.974	0.0206	0.0
20.0		9.119	33.593	25.998	0.0411	0.0
30.0		8.962	33.684	26.094	0.0610	0.0
40.0		8.774	33.690	26.128	0.0802	0.0
50.0		8.610	33.724	26.180	0.0993	0.0
60.0		8.517	33.773	26.233	0.1178	0.0
80.0		8.233	33.864	26.347	0.1532	0.0
100.0		8.158	33.925	26.406	0.1872	0.0
150.0		7.617	34.015	26.557	0.2669	0.0
200.0		7.453	34.083	26.634	0.3417	0.0
250.0		7.101	34.097	26.694	0.4136	0.0
300.0		6.944	34.125	26.738	0.4834	0.0
400.0		6.582	34.151	26.806	0.6182	0.0
461.0		6.050	34.205	26.918	0.6969	0.0





Cruise W8905 Station # 262 Depth m: 845 Time: 1989-05-14 16:42  
 Position: 38 29.15'N 123 42.55'W Depth Deck Offset: -0.20

PRESSURE Interp (d-bars)	TEMP (deg C)	SALINITY (0/00)	SIGMA-T	DELTA-D	CHANNELA (%light)
0.0	E 11.570	33.103	25.196	0.0000	0.0
10.0	11.202	33.161	25.308	0.0279	0.0
20.0	9.840	33.387	25.720	0.0524	0.0
30.0	9.162	33.557	25.963	0.0742	0.0
40.0	9.143	33.650	26.038	0.0945	0.0
50.0	9.229	33.679	26.047	0.1145	0.0
60.0	9.273	33.711	26.065	0.1344	0.0
80.0	8.651	33.768	26.208	0.1730	0.0
100.0	8.272	33.834	26.318	0.2091	0.0
150.0	8.142	34.015	26.479	0.2925	0.0
200.0	7.428	34.001	26.573	0.3703	0.0
250.0	7.221	34.098	26.678	0.4444	0.0
300.0	6.894	34.114	26.735	0.5147	0.0
400.0	6.207	34.177	26.876	0.6466	0.0
500.0	5.828	34.228	26.964	0.7689	0.0
600.0	5.378	34.274	27.056	0.8840	0.0
700.0	4.956	34.331	27.150	0.9906	0.0
800.0	4.566	34.378	27.231	1.0900	0.0
826.0	4.497	34.388	27.247	1.1146	0.0



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